



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Result of IV B.Tech[R10] I Semester Regular/Supplementary Examinations Dec-2015

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

Htno	Subcode	Subname	Internal	External	credits
10VV1A0444	R41042	EMBEDDED SYSTEMS	12	20	0
10VV1A0444	R41043	DIGITAL IMAGE PROCESSING	13	6	0
10VV1A0444	R41046	ANALOG IC DESIGN	10	6	0
11VV1A0446	EC411	OPTICAL COMMUNICATIONS	4	46	4
11VV1A0446	EC412	EMBEDDED SYSTEMS	17	39	4
11VV1A0446	EC413	DIGITAL IMAGE PROCESSING	11	43	4
11VV1A0446	EC414	RADAR SYSTEMS	6	52	4
11VV1A0446	EC415	BIO_MEDICAL ENGINEERING	11	32	4
11VV1A0446	EC416	ANALOG IC DESIGN	6	46	4
11VV1A0450	EC413	DIGITAL IMAGE PROCESSING	7	28	0
11VV1A1208	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	47	4
11VV1A1208	R41053	DATA WARE HOUSING AND DATA MINING	24	40	4
11VV1A1208	R41054	MOBILE COMPUTING	20	26	4
11VV1A1208	R41058	CYBER LAWS	22	33	4
11VV1A1208	R41121	DESIGN PATTERNS	15	52	4
11VV1A1208	R41129	ARTIFICIAL INTELLIGENCE	13	40	4
11VV1A1208	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
11VV1A1208	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A0201	R41021	COMPUTER ORGANIZATION	18	37	4
12VV1A0201	R41022	HIGH VOLTAGE ENGINEERING	15	53	4
12VV1A0201	R41023	SWITCH GEAR & PROTECTION	18	46	4
12VV1A0201	R41024	POWER SYSTEM OPERATION & CONTROL	11	51	4
12VV1A0201	R41026	INSTRUMENTATION	20	35	4
12VV1A0201	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	61	4
12VV1A0201	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	44	2
12VV1A0201	R4102D	ELECTRICAL SIMULATION LAB	23	44	2
12VV1A0202	R41021	COMPUTER ORGANIZATION	20	48	4
12VV1A0202	R41022	HIGH VOLTAGE ENGINEERING	21	60	4
12VV1A0202	R41023	SWITCH GEAR & PROTECTION	17	57	4
12VV1A0202	R41024	POWER SYSTEM OPERATION & CONTROL	5	55	4
12VV1A0202	R41026	INSTRUMENTATION	20	44	4
12VV1A0202	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	66	4
12VV1A0202	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	38	2
12VV1A0202	R4102D	ELECTRICAL SIMULATION LAB	24	44	2
12VV1A0203	R41021	COMPUTER ORGANIZATION	20	51	4
12VV1A0203	R41022	HIGH VOLTAGE ENGINEERING	19	55	4
12VV1A0203	R41023	SWITCH GEAR & PROTECTION	13	39	4
12VV1A0203	R41024	POWER SYSTEM OPERATION & CONTROL	14	33	4
12VV1A0203	R41026	INSTRUMENTATION	23	43	4
12VV1A0203	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	58	4
12VV1A0203	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	45	2
12VV1A0203	R4102D	ELECTRICAL SIMULATION LAB	20	25	2
12VV1A0204	R41021	COMPUTER ORGANIZATION	21	47	4
12VV1A0204	R41022	HIGH VOLTAGE ENGINEERING	19	48	4
12VV1A0204	R41023	SWITCH GEAR & PROTECTION	19	41	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0204	R41024	POWER SYSTEM OPERATION & CONTROL	13	54	4
12VV1A0204	R41026	INSTRUMENTATION	21	48	4
12VV1A0204	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	55	4
12VV1A0204	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	16	44	2
12VV1A0204	R4102D	ELECTRICAL SIMULATION LAB	22	36	2
12VV1A0206	R41021	COMPUTER ORGANIZATION	20	31	4
12VV1A0206	R41022	HIGH VOLTAGE ENGINEERING	18	41	4
12VV1A0206	R41023	SWITCH GEAR & PROTECTION	16	46	4
12VV1A0206	R41024	POWER SYSTEM OPERATION & CONTROL	9	32	4
12VV1A0206	R41026	INSTRUMENTATION	23	30	4
12VV1A0206	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	55	4
12VV1A0206	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	14	41	2
12VV1A0206	R4102D	ELECTRICAL SIMULATION LAB	20	38	2
12VV1A0207	R41021	COMPUTER ORGANIZATION	19	37	4
12VV1A0207	R41022	HIGH VOLTAGE ENGINEERING	18	50	4
12VV1A0207	R41023	SWITCH GEAR & PROTECTION	12	50	4
12VV1A0207	R41024	POWER SYSTEM OPERATION & CONTROL	12	40	4
12VV1A0207	R41026	INSTRUMENTATION	17	41	4
12VV1A0207	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	22	61	4
12VV1A0207	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	36	2
12VV1A0207	R4102D	ELECTRICAL SIMULATION LAB	20	33	2
12VV1A0208	R41021	COMPUTER ORGANIZATION	19	53	4
12VV1A0208	R41022	HIGH VOLTAGE ENGINEERING	21	55	4
12VV1A0208	R41023	SWITCH GEAR & PROTECTION	15	46	4
12VV1A0208	R41024	POWER SYSTEM OPERATION & CONTROL	14	55	4
12VV1A0208	R41026	INSTRUMENTATION	20	46	4
12VV1A0208	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	68	4
12VV1A0208	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	45	2
12VV1A0208	R4102D	ELECTRICAL SIMULATION LAB	22	38	2
12VV1A0209	R41021	COMPUTER ORGANIZATION	21	58	4
12VV1A0209	R41022	HIGH VOLTAGE ENGINEERING	21	51	4
12VV1A0209	R41023	SWITCH GEAR & PROTECTION	16	51	4
12VV1A0209	R41024	POWER SYSTEM OPERATION & CONTROL	18	56	4
12VV1A0209	R41026	INSTRUMENTATION	22	45	4
12VV1A0209	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	64	4
12VV1A0209	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	47	2
12VV1A0209	R4102D	ELECTRICAL SIMULATION LAB	24	38	2
12VV1A0210	R41021	COMPUTER ORGANIZATION	16	4	0
12VV1A0210	R41022	HIGH VOLTAGE ENGINEERING	12	33	4
12VV1A0210	R41023	SWITCH GEAR & PROTECTION	14	11	0
12VV1A0210	R41024	POWER SYSTEM OPERATION & CONTROL	14	20	0
12VV1A0210	R41026	INSTRUMENTATION	21	4	0
12VV1A0210	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	18	0
12VV1A0210	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	14	38	2
12VV1A0211	R41021	COMPUTER ORGANIZATION	22	36	4
12VV1A0211	R41022	HIGH VOLTAGE ENGINEERING	16	41	4
12VV1A0211	R41023	SWITCH GEAR & PROTECTION	18	46	4
12VV1A0211	R41024	POWER SYSTEM OPERATION & CONTROL	16	35	4
12VV1A0211	R41026	INSTRUMENTATION	21	36	4
12VV1A0211	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	57	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0211	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	41	2
12VV1A0211	R4102D	ELECTRICAL SIMULATION LAB	23	46	2
12VV1A0212	R41021	COMPUTER ORGANIZATION	18	36	4
12VV1A0212	R41022	HIGH VOLTAGE ENGINEERING	19	53	4
12VV1A0212	R41023	SWITCH GEAR & PROTECTION	18	52	4
12VV1A0212	R41024	POWER SYSTEM OPERATION & CONTROL	10	35	4
12VV1A0212	R41026	INSTRUMENTATION	22	46	4
12VV1A0212	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	63	4
12VV1A0212	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	47	2
12VV1A0212	R4102D	ELECTRICAL SIMULATION LAB	23	30	2
12VV1A0213	R41021	COMPUTER ORGANIZATION	17	35	4
12VV1A0213	R41022	HIGH VOLTAGE ENGINEERING	18	51	4
12VV1A0213	R41023	SWITCH GEAR & PROTECTION	18	52	4
12VV1A0213	R41024	POWER SYSTEM OPERATION & CONTROL	13	37	4
12VV1A0213	R41026	INSTRUMENTATION	24	42	4
12VV1A0213	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	65	4
12VV1A0213	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	41	2
12VV1A0213	R4102D	ELECTRICAL SIMULATION LAB	21	27	2
12VV1A0214	R41021	COMPUTER ORGANIZATION	19	43	4
12VV1A0214	R41022	HIGH VOLTAGE ENGINEERING	17	61	4
12VV1A0214	R41023	SWITCH GEAR & PROTECTION	15	49	4
12VV1A0214	R41024	POWER SYSTEM OPERATION & CONTROL	18	40	4
12VV1A0214	R41026	INSTRUMENTATION	17	47	4
12VV1A0214	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	58	4
12VV1A0214	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	41	2
12VV1A0214	R4102D	ELECTRICAL SIMULATION LAB	22	30	2
12VV1A0215	R41021	COMPUTER ORGANIZATION	20	44	4
12VV1A0215	R41022	HIGH VOLTAGE ENGINEERING	20	61	4
12VV1A0215	R41023	SWITCH GEAR & PROTECTION	17	52	4
12VV1A0215	R41024	POWER SYSTEM OPERATION & CONTROL	19	40	4
12VV1A0215	R41026	INSTRUMENTATION	18	52	4
12VV1A0215	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	59	4
12VV1A0215	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	48	2
12VV1A0215	R4102D	ELECTRICAL SIMULATION LAB	21	40	2
12VV1A0216	R41021	COMPUTER ORGANIZATION	20	49	4
12VV1A0216	R41022	HIGH VOLTAGE ENGINEERING	18	52	4
12VV1A0216	R41023	SWITCH GEAR & PROTECTION	18	48	4
12VV1A0216	R41024	POWER SYSTEM OPERATION & CONTROL	16	40	4
12VV1A0216	R41026	INSTRUMENTATION	16	46	4
12VV1A0216	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	59	4
12VV1A0216	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	44	2
12VV1A0216	R4102D	ELECTRICAL SIMULATION LAB	24	40	2
12VV1A0217	R41021	COMPUTER ORGANIZATION	21	42	4
12VV1A0217	R41022	HIGH VOLTAGE ENGINEERING	16	56	4
12VV1A0217	R41023	SWITCH GEAR & PROTECTION	19	47	4
12VV1A0217	R41024	POWER SYSTEM OPERATION & CONTROL	19	53	4
12VV1A0217	R41026	INSTRUMENTATION	25	61	4
12VV1A0217	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	60	4
12VV1A0217	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	46	2
12VV1A0217	R4102D	ELECTRICAL SIMULATION LAB	24	24	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0218	R41021	COMPUTER ORGANIZATION	19	45	4
12VV1A0218	R41022	HIGH VOLTAGE ENGINEERING	20	53	4
12VV1A0218	R41023	SWITCH GEAR & PROTECTION	19	51	4
12VV1A0218	R41024	POWER SYSTEM OPERATION & CONTROL	18	39	4
12VV1A0218	R41026	INSTRUMENTATION	20	49	4
12VV1A0218	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	56	4
12VV1A0218	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	44	2
12VV1A0218	R4102D	ELECTRICAL SIMULATION LAB	23	30	2
12VV1A0219	R41021	COMPUTER ORGANIZATION	21	58	4
12VV1A0219	R41022	HIGH VOLTAGE ENGINEERING	19	53	4
12VV1A0219	R41023	SWITCH GEAR & PROTECTION	16	51	4
12VV1A0219	R41024	POWER SYSTEM OPERATION & CONTROL	19	38	4
12VV1A0219	R41026	INSTRUMENTATION	21	52	4
12VV1A0219	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	63	4
12VV1A0219	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	47	2
12VV1A0219	R4102D	ELECTRICAL SIMULATION LAB	23	40	2
12VV1A0220	R41021	COMPUTER ORGANIZATION	20	50	4
12VV1A0220	R41022	HIGH VOLTAGE ENGINEERING	18	56	4
12VV1A0220	R41023	SWITCH GEAR & PROTECTION	18	45	4
12VV1A0220	R41024	POWER SYSTEM OPERATION & CONTROL	17	42	4
12VV1A0220	R41026	INSTRUMENTATION	16	51	4
12VV1A0220	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	59	4
12VV1A0220	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	42	2
12VV1A0220	R4102D	ELECTRICAL SIMULATION LAB	20	30	2
12VV1A0222	R41021	COMPUTER ORGANIZATION	22	53	4
12VV1A0222	R41022	HIGH VOLTAGE ENGINEERING	20	52	4
12VV1A0222	R41023	SWITCH GEAR & PROTECTION	19	51	4
12VV1A0222	R41024	POWER SYSTEM OPERATION & CONTROL	17	45	4
12VV1A0222	R41026	INSTRUMENTATION	25	46	4
12VV1A0222	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	60	4
12VV1A0222	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	43	2
12VV1A0222	R4102D	ELECTRICAL SIMULATION LAB	24	30	2
12VV1A0223	R41021	COMPUTER ORGANIZATION	23	54	4
12VV1A0223	R41022	HIGH VOLTAGE ENGINEERING	19	52	4
12VV1A0223	R41023	SWITCH GEAR & PROTECTION	13	45	4
12VV1A0223	R41024	POWER SYSTEM OPERATION & CONTROL	18	50	4
12VV1A0223	R41026	INSTRUMENTATION	19	43	4
12VV1A0223	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	62	4
12VV1A0223	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	40	2
12VV1A0223	R4102D	ELECTRICAL SIMULATION LAB	23	40	2
12VV1A0224	R41021	COMPUTER ORGANIZATION	21	43	4
12VV1A0224	R41022	HIGH VOLTAGE ENGINEERING	19	53	4
12VV1A0224	R41023	SWITCH GEAR & PROTECTION	17	46	4
12VV1A0224	R41024	POWER SYSTEM OPERATION & CONTROL	10	58	4
12VV1A0224	R41026	INSTRUMENTATION	22	45	4
12VV1A0224	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	50	4
12VV1A0224	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	40	2
12VV1A0224	R4102D	ELECTRICAL SIMULATION LAB	21	45	2
12VV1A0225	R41021	COMPUTER ORGANIZATION	20	57	4
12VV1A0225	R41022	HIGH VOLTAGE ENGINEERING	20	56	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0225	R41023	SWITCH GEAR & PROTECTION	19	49	4
12VV1A0225	R41024	POWER SYSTEM OPERATION & CONTROL	16	36	4
12VV1A0225	R41026	INSTRUMENTATION	19	41	4
12VV1A0225	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	23	61	4
12VV1A0225	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	44	2
12VV1A0225	R4102D	ELECTRICAL SIMULATION LAB	23	44	2
12VV1A0226	R41021	COMPUTER ORGANIZATION	21	53	4
12VV1A0226	R41022	HIGH VOLTAGE ENGINEERING	17	52	4
12VV1A0226	R41023	SWITCH GEAR & PROTECTION	16	43	4
12VV1A0226	R41024	POWER SYSTEM OPERATION & CONTROL	16	54	4
12VV1A0226	R41026	INSTRUMENTATION	24	42	4
12VV1A0226	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	57	4
12VV1A0226	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	45	2
12VV1A0226	R4102D	ELECTRICAL SIMULATION LAB	23	40	2
12VV1A0227	R41021	COMPUTER ORGANIZATION	10	7	0
12VV1A0227	R41022	HIGH VOLTAGE ENGINEERING	7	27	0
12VV1A0227	R41023	SWITCH GEAR & PROTECTION	7	16	0
12VV1A0227	R41024	POWER SYSTEM OPERATION & CONTROL	2	11	0
12VV1A0227	R41026	INSTRUMENTATION	19	7	0
12VV1A0227	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	10	17	0
12VV1A0227	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	17	37	2
12VV1A0227	R4102D	ELECTRICAL SIMULATION LAB	19	30	2
12VV1A0228	R41021	COMPUTER ORGANIZATION	22	43	4
12VV1A0228	R41022	HIGH VOLTAGE ENGINEERING	18	56	4
12VV1A0228	R41023	SWITCH GEAR & PROTECTION	19	48	4
12VV1A0228	R41024	POWER SYSTEM OPERATION & CONTROL	15	47	4
12VV1A0228	R41026	INSTRUMENTATION	25	49	4
12VV1A0228	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	64	4
12VV1A0228	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	25	49	2
12VV1A0228	R4102D	ELECTRICAL SIMULATION LAB	23	41	2
12VV1A0229	R41021	COMPUTER ORGANIZATION	18	55	4
12VV1A0229	R41022	HIGH VOLTAGE ENGINEERING	21	56	4
12VV1A0229	R41023	SWITCH GEAR & PROTECTION	19	44	4
12VV1A0229	R41024	POWER SYSTEM OPERATION & CONTROL	14	48	4
12VV1A0229	R41026	INSTRUMENTATION	23	35	4
12VV1A0229	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	63	4
12VV1A0229	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	40	2
12VV1A0229	R4102D	ELECTRICAL SIMULATION LAB	23	30	2
12VV1A0230	R41021	COMPUTER ORGANIZATION	20	42	4
12VV1A0230	R41022	HIGH VOLTAGE ENGINEERING	20	50	4
12VV1A0230	R41023	SWITCH GEAR & PROTECTION	17	32	4
12VV1A0230	R41024	POWER SYSTEM OPERATION & CONTROL	17	45	4
12VV1A0230	R41026	INSTRUMENTATION	15	40	4
12VV1A0230	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	57	4
12VV1A0230	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	42	2
12VV1A0230	R4102D	ELECTRICAL SIMULATION LAB	20	42	2
12VV1A0231	R41021	COMPUTER ORGANIZATION	21	55	4
12VV1A0231	R41022	HIGH VOLTAGE ENGINEERING	17	45	4
12VV1A0231	R41023	SWITCH GEAR & PROTECTION	20	40	4
12VV1A0231	R41024	POWER SYSTEM OPERATION & CONTROL	21	58	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0231	R41026	INSTRUMENTATION	23	46	4
12VV1A0231	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	55	4
12VV1A0231	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	18	43	2
12VV1A0231	R4102D	ELECTRICAL SIMULATION LAB	24	42	2
12VV1A0232	R41021	COMPUTER ORGANIZATION	18	44	4
12VV1A0232	R41022	HIGH VOLTAGE ENGINEERING	18	49	4
12VV1A0232	R41023	SWITCH GEAR & PROTECTION	12	45	4
12VV1A0232	R41024	POWER SYSTEM OPERATION & CONTROL	8	44	4
12VV1A0232	R41026	INSTRUMENTATION	21	37	4
12VV1A0232	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	50	4
12VV1A0232	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	42	2
12VV1A0232	R4102D	ELECTRICAL SIMULATION LAB	23	45	2
12VV1A0233	R41021	COMPUTER ORGANIZATION	22	48	4
12VV1A0233	R41022	HIGH VOLTAGE ENGINEERING	19	52	4
12VV1A0233	R41023	SWITCH GEAR & PROTECTION	19	50	4
12VV1A0233	R41024	POWER SYSTEM OPERATION & CONTROL	18	49	4
12VV1A0233	R41026	INSTRUMENTATION	21	46	4
12VV1A0233	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	60	4
12VV1A0233	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	46	2
12VV1A0233	R4102D	ELECTRICAL SIMULATION LAB	23	45	2
12VV1A0234	R41021	COMPUTER ORGANIZATION	20	52	4
12VV1A0234	R41022	HIGH VOLTAGE ENGINEERING	18	51	4
12VV1A0234	R41023	SWITCH GEAR & PROTECTION	19	53	4
12VV1A0234	R41024	POWER SYSTEM OPERATION & CONTROL	20	42	4
12VV1A0234	R41026	INSTRUMENTATION	23	44	4
12VV1A0234	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	60	4
12VV1A0234	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	39	2
12VV1A0234	R4102D	ELECTRICAL SIMULATION LAB	21	33	2
12VV1A0235	R41021	COMPUTER ORGANIZATION	20	32	4
12VV1A0235	R41022	HIGH VOLTAGE ENGINEERING	12	53	4
12VV1A0235	R41023	SWITCH GEAR & PROTECTION	18	44	4
12VV1A0235	R41024	POWER SYSTEM OPERATION & CONTROL	19	32	4
12VV1A0235	R41026	INSTRUMENTATION	21	41	4
12VV1A0235	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	55	4
12VV1A0235	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	46	2
12VV1A0235	R4102D	ELECTRICAL SIMULATION LAB	18	38	2
12VV1A0236	R41021	COMPUTER ORGANIZATION	22	36	4
12VV1A0236	R41022	HIGH VOLTAGE ENGINEERING	17	46	4
12VV1A0236	R41023	SWITCH GEAR & PROTECTION	18	38	4
12VV1A0236	R41024	POWER SYSTEM OPERATION & CONTROL	17	38	4
12VV1A0236	R41026	INSTRUMENTATION	24	41	4
12VV1A0236	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	48	4
12VV1A0236	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	25	46	2
12VV1A0236	R4102D	ELECTRICAL SIMULATION LAB	24	36	2
12VV1A0237	R41021	COMPUTER ORGANIZATION	18	42	4
12VV1A0237	R41022	HIGH VOLTAGE ENGINEERING	16	49	4
12VV1A0237	R41023	SWITCH GEAR & PROTECTION	20	51	4
12VV1A0237	R41024	POWER SYSTEM OPERATION & CONTROL	18	55	4
12VV1A0237	R41026	INSTRUMENTATION	12	50	4
12VV1A0237	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	58	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0237	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	25	48	2
12VV1A0237	R4102D	ELECTRICAL SIMULATION LAB	22	30	2
12VV1A0238	R41021	COMPUTER ORGANIZATION	20	59	4
12VV1A0238	R41022	HIGH VOLTAGE ENGINEERING	21	52	4
12VV1A0238	R41023	SWITCH GEAR & PROTECTION	20	44	4
12VV1A0238	R41024	POWER SYSTEM OPERATION & CONTROL	19	46	4
12VV1A0238	R41026	INSTRUMENTATION	23	44	4
12VV1A0238	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	61	4
12VV1A0238	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	16	45	2
12VV1A0238	R4102D	ELECTRICAL SIMULATION LAB	21	42	2
12VV1A0239	R41021	COMPUTER ORGANIZATION	22	54	4
12VV1A0239	R41022	HIGH VOLTAGE ENGINEERING	18	50	4
12VV1A0239	R41023	SWITCH GEAR & PROTECTION	16	49	4
12VV1A0239	R41024	POWER SYSTEM OPERATION & CONTROL	20	54	4
12VV1A0239	R41026	INSTRUMENTATION	23	51	4
12VV1A0239	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	65	4
12VV1A0239	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	44	2
12VV1A0239	R4102D	ELECTRICAL SIMULATION LAB	24	44	2
12VV1A0240	R41021	COMPUTER ORGANIZATION	21	41	4
12VV1A0240	R41022	HIGH VOLTAGE ENGINEERING	17	53	4
12VV1A0240	R41023	SWITCH GEAR & PROTECTION	21	44	4
12VV1A0240	R41024	POWER SYSTEM OPERATION & CONTROL	16	53	4
12VV1A0240	R41026	INSTRUMENTATION	22	52	4
12VV1A0240	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	54	4
12VV1A0240	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	46	2
12VV1A0240	R4102D	ELECTRICAL SIMULATION LAB	21	42	2
12VV1A0241	R41021	COMPUTER ORGANIZATION	22	39	4
12VV1A0241	R41022	HIGH VOLTAGE ENGINEERING	23	56	4
12VV1A0241	R41023	SWITCH GEAR & PROTECTION	19	39	4
12VV1A0241	R41024	POWER SYSTEM OPERATION & CONTROL	16	54	4
12VV1A0241	R41026	INSTRUMENTATION	22	54	4
12VV1A0241	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	56	4
12VV1A0241	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	44	2
12VV1A0241	R4102D	ELECTRICAL SIMULATION LAB	22	41	2
12VV1A0242	R41021	COMPUTER ORGANIZATION	21	54	4
12VV1A0242	R41022	HIGH VOLTAGE ENGINEERING	16	53	4
12VV1A0242	R41023	SWITCH GEAR & PROTECTION	20	47	4
12VV1A0242	R41024	POWER SYSTEM OPERATION & CONTROL	18	50	4
12VV1A0242	R41026	INSTRUMENTATION	21	41	4
12VV1A0242	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	52	4
12VV1A0242	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	43	2
12VV1A0242	R4102D	ELECTRICAL SIMULATION LAB	22	40	2
12VV1A0243	R41021	COMPUTER ORGANIZATION	19	43	4
12VV1A0243	R41022	HIGH VOLTAGE ENGINEERING	16	49	4
12VV1A0243	R41023	SWITCH GEAR & PROTECTION	15	44	4
12VV1A0243	R41024	POWER SYSTEM OPERATION & CONTROL	1	41	4
12VV1A0243	R41026	INSTRUMENTATION	17	41	4
12VV1A0243	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	51	4
12VV1A0243	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	36	2
12VV1A0243	R4102D	ELECTRICAL SIMULATION LAB	20	40	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0244	R41021	COMPUTER ORGANIZATION	16	51	4
12VV1A0244	R41022	HIGH VOLTAGE ENGINEERING	19	62	4
12VV1A0244	R41023	SWITCH GEAR & PROTECTION	16	50	4
12VV1A0244	R41024	POWER SYSTEM OPERATION & CONTROL	14	45	4
12VV1A0244	R41026	INSTRUMENTATION	24	47	4
12VV1A0244	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	63	4
12VV1A0244	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	17	39	2
12VV1A0244	R4102D	ELECTRICAL SIMULATION LAB	23	41	2
12VV1A0245	R41021	COMPUTER ORGANIZATION	17	28	4
12VV1A0245	R41022	HIGH VOLTAGE ENGINEERING	19	58	4
12VV1A0245	R41023	SWITCH GEAR & PROTECTION	18	50	4
12VV1A0245	R41024	POWER SYSTEM OPERATION & CONTROL	18	46	4
12VV1A0245	R41026	INSTRUMENTATION	20	44	4
12VV1A0245	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	53	4
12VV1A0245	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	42	2
12VV1A0245	R4102D	ELECTRICAL SIMULATION LAB	23	33	2
12VV1A0246	R41021	COMPUTER ORGANIZATION	21	42	4
12VV1A0246	R41022	HIGH VOLTAGE ENGINEERING	16	49	4
12VV1A0246	R41023	SWITCH GEAR & PROTECTION	15	48	4
12VV1A0246	R41024	POWER SYSTEM OPERATION & CONTROL	16	44	4
12VV1A0246	R41026	INSTRUMENTATION	19	35	4
12VV1A0246	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	56	4
12VV1A0246	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	43	2
12VV1A0246	R4102D	ELECTRICAL SIMULATION LAB	23	39	2
12VV1A0247	R41021	COMPUTER ORGANIZATION	20	51	4
12VV1A0247	R41022	HIGH VOLTAGE ENGINEERING	18	52	4
12VV1A0247	R41023	SWITCH GEAR & PROTECTION	19	57	4
12VV1A0247	R41024	POWER SYSTEM OPERATION & CONTROL	20	52	4
12VV1A0247	R41026	INSTRUMENTATION	13	49	4
12VV1A0247	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	14	62	4
12VV1A0247	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	48	2
12VV1A0247	R4102D	ELECTRICAL SIMULATION LAB	21	34	2
12VV1A0248	R41021	COMPUTER ORGANIZATION	18	33	4
12VV1A0248	R41022	HIGH VOLTAGE ENGINEERING	19	49	4
12VV1A0248	R41023	SWITCH GEAR & PROTECTION	14	40	4
12VV1A0248	R41024	POWER SYSTEM OPERATION & CONTROL	5	35	4
12VV1A0248	R41026	INSTRUMENTATION	19	41	4
12VV1A0248	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	53	4
12VV1A0248	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	37	2
12VV1A0248	R4102D	ELECTRICAL SIMULATION LAB	22	35	2
12VV1A0249	R41021	COMPUTER ORGANIZATION	14	27	4
12VV1A0249	R41022	HIGH VOLTAGE ENGINEERING	11	40	4
12VV1A0249	R41023	SWITCH GEAR & PROTECTION	17	38	4
12VV1A0249	R41024	POWER SYSTEM OPERATION & CONTROL	12	30	4
12VV1A0249	R41026	INSTRUMENTATION	15	38	4
12VV1A0249	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	13	44	4
12VV1A0249	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	45	2
12VV1A0249	R4102D	ELECTRICAL SIMULATION LAB	20	38	2
12VV1A0250	R41021	COMPUTER ORGANIZATION	21	52	4
12VV1A0250	R41022	HIGH VOLTAGE ENGINEERING	18	57	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0250	R41023	SWITCH GEAR & PROTECTION	21	41	4
12VV1A0250	R41024	POWER SYSTEM OPERATION & CONTROL	18	51	4
12VV1A0250	R41026	INSTRUMENTATION	24	49	4
12VV1A0250	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	62	4
12VV1A0250	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	48	2
12VV1A0250	R4102D	ELECTRICAL SIMULATION LAB	23	45	2
12VV1A0251	R41021	COMPUTER ORGANIZATION	20	46	4
12VV1A0251	R41022	HIGH VOLTAGE ENGINEERING	19	52	4
12VV1A0251	R41023	SWITCH GEAR & PROTECTION	18	50	4
12VV1A0251	R41024	POWER SYSTEM OPERATION & CONTROL	20	46	4
12VV1A0251	R41026	INSTRUMENTATION	23	47	4
12VV1A0251	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	56	4
12VV1A0251	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	25	47	2
12VV1A0251	R4102D	ELECTRICAL SIMULATION LAB	23	40	2
12VV1A0252	R41021	COMPUTER ORGANIZATION	18	42	4
12VV1A0252	R41022	HIGH VOLTAGE ENGINEERING	19	56	4
12VV1A0252	R41023	SWITCH GEAR & PROTECTION	15	36	4
12VV1A0252	R41024	POWER SYSTEM OPERATION & CONTROL	8	49	4
12VV1A0252	R41026	INSTRUMENTATION	24	52	4
12VV1A0252	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	52	4
12VV1A0252	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	45	2
12VV1A0252	R4102D	ELECTRICAL SIMULATION LAB	22	30	2
12VV1A0253	R41021	COMPUTER ORGANIZATION	20	55	4
12VV1A0253	R41022	HIGH VOLTAGE ENGINEERING	20	48	4
12VV1A0253	R41023	SWITCH GEAR & PROTECTION	17	45	4
12VV1A0253	R41024	POWER SYSTEM OPERATION & CONTROL	20	51	4
12VV1A0253	R41026	INSTRUMENTATION	23	49	4
12VV1A0253	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	44	4
12VV1A0253	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	37	2
12VV1A0253	R4102D	ELECTRICAL SIMULATION LAB	21	40	2
12VV1A0254	R41021	COMPUTER ORGANIZATION	21	50	4
12VV1A0254	R41022	HIGH VOLTAGE ENGINEERING	20	47	4
12VV1A0254	R41023	SWITCH GEAR & PROTECTION	20	51	4
12VV1A0254	R41024	POWER SYSTEM OPERATION & CONTROL	18	48	4
12VV1A0254	R41026	INSTRUMENTATION	24	47	4
12VV1A0254	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	59	4
12VV1A0254	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	44	2
12VV1A0254	R4102D	ELECTRICAL SIMULATION LAB	23	40	2
12VV1A0255	R41021	COMPUTER ORGANIZATION	19	45	4
12VV1A0255	R41022	HIGH VOLTAGE ENGINEERING	13	38	4
12VV1A0255	R41023	SWITCH GEAR & PROTECTION	16	31	4
12VV1A0255	R41024	POWER SYSTEM OPERATION & CONTROL	16	40	4
12VV1A0255	R41026	INSTRUMENTATION	19	28	4
12VV1A0255	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	36	4
12VV1A0255	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	45	2
12VV1A0255	R4102D	ELECTRICAL SIMULATION LAB	21	28	2
12VV1A0256	R41021	COMPUTER ORGANIZATION	19	51	4
12VV1A0256	R41022	HIGH VOLTAGE ENGINEERING	18	54	4
12VV1A0256	R41023	SWITCH GEAR & PROTECTION	18	46	4
12VV1A0256	R41024	POWER SYSTEM OPERATION & CONTROL	20	47	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0256	R41026	INSTRUMENTATION	19	49	4
12VV1A0256	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	-1	0
12VV1A0256	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	17	41	2
12VV1A0256	R4102D	ELECTRICAL SIMULATION LAB	22	30	2
12VV1A0257	R41021	COMPUTER ORGANIZATION	16	40	4
12VV1A0257	R41022	HIGH VOLTAGE ENGINEERING	15	39	4
12VV1A0257	R41023	SWITCH GEAR & PROTECTION	15	35	4
12VV1A0257	R41024	POWER SYSTEM OPERATION & CONTROL	14	36	4
12VV1A0257	R41026	INSTRUMENTATION	23	34	4
12VV1A0257	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	46	4
12VV1A0257	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	25	47	2
12VV1A0257	R4102D	ELECTRICAL SIMULATION LAB	24	40	2
12VV1A0258	R41021	COMPUTER ORGANIZATION	17	43	4
12VV1A0258	R41022	HIGH VOLTAGE ENGINEERING	13	39	4
12VV1A0258	R41023	SWITCH GEAR & PROTECTION	7	34	4
12VV1A0258	R41024	POWER SYSTEM OPERATION & CONTROL	13	32	4
12VV1A0258	R41026	INSTRUMENTATION	20	26	4
12VV1A0258	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	13	46	4
12VV1A0258	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	17	45	2
12VV1A0258	R4102D	ELECTRICAL SIMULATION LAB	19	29	2
12VV1A0259	R41021	COMPUTER ORGANIZATION	20	27	4
12VV1A0259	R41022	HIGH VOLTAGE ENGINEERING	16	44	4
12VV1A0259	R41023	SWITCH GEAR & PROTECTION	13	34	4
12VV1A0259	R41024	POWER SYSTEM OPERATION & CONTROL	8	20	0
12VV1A0259	R41026	INSTRUMENTATION	24	40	4
12VV1A0259	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	14	49	4
12VV1A0259	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	16	45	2
12VV1A0259	R4102D	ELECTRICAL SIMULATION LAB	21	28	2
12VV1A0260	R41021	COMPUTER ORGANIZATION	20	51	4
12VV1A0260	R41022	HIGH VOLTAGE ENGINEERING	16	45	4
12VV1A0260	R41023	SWITCH GEAR & PROTECTION	16	41	4
12VV1A0260	R41024	POWER SYSTEM OPERATION & CONTROL	4	36	4
12VV1A0260	R41026	INSTRUMENTATION	24	41	4
12VV1A0260	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	51	4
12VV1A0260	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	39	2
12VV1A0260	R4102D	ELECTRICAL SIMULATION LAB	22	40	2
12VV1A0301	R41031	REFRIGERATION & AIR CONDITIONING	15	38	4
12VV1A0301	R41032	CAD/CAM	11	36	4
12VV1A0301	R41033	ALTERNATIVE SOURCES OF ENERGY	18	33	4
12VV1A0301	R41034	UNCONVENTIONAL MACHINING PROCESSES	15	36	4
12VV1A0301	R41035	Micro Electro Mechnaical Systems	12	30	4
12VV1A0301	R41037	AUTOMOBILE ENGINEERING	12	40	4
12VV1A0301	R4103B	SIMULATION LAB	20	45	2
12VV1A0301	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	39	2
12VV1A0302	R41031	REFRIGERATION & AIR CONDITIONING	16	52	4
12VV1A0302	R41032	CAD/CAM	18	59	4
12VV1A0302	R41033	ALTERNATIVE SOURCES OF ENERGY	17	56	4
12VV1A0302	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	51	4
12VV1A0302	R41035	Micro Electro Mechnaical Systems	15	39	4
12VV1A0302	R41037	AUTOMOBILE ENGINEERING	18	47	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0302	R4103B	SIMULATION LAB	20	37	2
12VV1A0302	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	46	2
12VV1A0303	R41031	REFRIGERATION & AIR CONDITIONING	15	40	4
12VV1A0303	R41032	CAD/CAM	16	51	4
12VV1A0303	R41033	ALTERNATIVE SOURCES OF ENERGY	23	45	4
12VV1A0303	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	40	4
12VV1A0303	R41035	Micro Electro Mechnaical Systems	12	29	4
12VV1A0303	R41037	AUTOMOBILE ENGINEERING	15	31	4
12VV1A0303	R4103B	SIMULATION LAB	19	38	2
12VV1A0303	R4103C	ADVANCED COMMUNICATION SKILLS LAB	19	38	2
12VV1A0304	R41031	REFRIGERATION & AIR CONDITIONING	16	40	4
12VV1A0304	R41032	CAD/CAM	17	49	4
12VV1A0304	R41033	ALTERNATIVE SOURCES OF ENERGY	24	55	4
12VV1A0304	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	58	4
12VV1A0304	R41035	Micro Electro Mechnaical Systems	12	48	4
12VV1A0304	R41037	AUTOMOBILE ENGINEERING	19	44	4
12VV1A0304	R4103B	SIMULATION LAB	20	45	2
12VV1A0304	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	42	2
12VV1A0305	R41031	REFRIGERATION & AIR CONDITIONING	13	41	4
12VV1A0305	R41032	CAD/CAM	14	44	4
12VV1A0305	R41033	ALTERNATIVE SOURCES OF ENERGY	20	49	4
12VV1A0305	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	48	4
12VV1A0305	R41035	Micro Electro Mechnaical Systems	10	43	4
12VV1A0305	R41037	AUTOMOBILE ENGINEERING	13	38	4
12VV1A0305	R4103B	SIMULATION LAB	21	44	2
12VV1A0305	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	41	2
12VV1A0306	R41031	REFRIGERATION & AIR CONDITIONING	11	26	0
12VV1A0306	R41032	CAD/CAM	12	26	0
12VV1A0306	R41033	ALTERNATIVE SOURCES OF ENERGY	17	19	0
12VV1A0306	R41034	UNCONVENTIONAL MACHINING PROCESSES	14	27	4
12VV1A0306	R41035	Micro Electro Mechnaical Systems	13	18	0
12VV1A0306	R41037	AUTOMOBILE ENGINEERING	9	26	0
12VV1A0306	R4103B	SIMULATION LAB	19	38	2
12VV1A0306	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	36	2
12VV1A0307	R41031	REFRIGERATION & AIR CONDITIONING	18	48	4
12VV1A0307	R41032	CAD/CAM	16	45	4
12VV1A0307	R41033	ALTERNATIVE SOURCES OF ENERGY	17	48	4
12VV1A0307	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	52	4
12VV1A0307	R41035	Micro Electro Mechnaical Systems	10	50	4
12VV1A0307	R41037	AUTOMOBILE ENGINEERING	17	50	4
12VV1A0307	R4103B	SIMULATION LAB	18	38	2
12VV1A0307	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	39	2
12VV1A0308	R41031	REFRIGERATION & AIR CONDITIONING	17	37	4
12VV1A0308	R41032	CAD/CAM	12	38	4
12VV1A0308	R41033	ALTERNATIVE SOURCES OF ENERGY	21	42	4
12VV1A0308	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	51	4
12VV1A0308	R41035	Micro Electro Mechnaical Systems	12	42	4
12VV1A0308	R41037	AUTOMOBILE ENGINEERING	14	44	4
12VV1A0308	R4103B	SIMULATION LAB	20	44	2
12VV1A0308	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	39	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0309	R41031	REFRIGERATION & AIR CONDITIONING	20	39	4
12VV1A0309	R41032	CAD/CAM	16	48	4
12VV1A0309	R41033	ALTERNATIVE SOURCES OF ENERGY	24	42	4
12VV1A0309	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	55	4
12VV1A0309	R41035	Micro Electro Mechnaical Systems	15	43	4
12VV1A0309	R41037	AUTOMOBILE ENGINEERING	21	39	4
12VV1A0309	R4103B	SIMULATION LAB	20	45	2
12VV1A0309	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	40	2
12VV1A0310	R41031	REFRIGERATION & AIR CONDITIONING	14	42	4
12VV1A0310	R41032	CAD/CAM	16	44	4
12VV1A0310	R41033	ALTERNATIVE SOURCES OF ENERGY	24	43	4
12VV1A0310	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	52	4
12VV1A0310	R41035	Micro Electro Mechnaical Systems	14	42	4
12VV1A0310	R41037	AUTOMOBILE ENGINEERING	20	34	4
12VV1A0310	R4103B	SIMULATION LAB	21	43	2
12VV1A0310	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	45	2
12VV1A0311	R41031	REFRIGERATION & AIR CONDITIONING	14	47	4
12VV1A0311	R41032	CAD/CAM	14	42	4
12VV1A0311	R41033	ALTERNATIVE SOURCES OF ENERGY	20	48	4
12VV1A0311	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	56	4
12VV1A0311	R41035	Micro Electro Mechnaical Systems	21	39	4
12VV1A0311	R41037	AUTOMOBILE ENGINEERING	19	44	4
12VV1A0311	R4103B	SIMULATION LAB	19	44	2
12VV1A0311	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	37	2
12VV1A0312	R41031	REFRIGERATION & AIR CONDITIONING	18	40	4
12VV1A0312	R41032	CAD/CAM	17	35	4
12VV1A0312	R41033	ALTERNATIVE SOURCES OF ENERGY	22	47	4
12VV1A0312	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	52	4
12VV1A0312	R41035	Micro Electro Mechnaical Systems	10	47	4
12VV1A0312	R41037	AUTOMOBILE ENGINEERING	17	34	4
12VV1A0312	R4103B	SIMULATION LAB	21	39	2
12VV1A0312	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	40	2
12VV1A0313	R41031	REFRIGERATION & AIR CONDITIONING	13	35	4
12VV1A0313	R41032	CAD/CAM	14	30	4
12VV1A0313	R41033	ALTERNATIVE SOURCES OF ENERGY	19	47	4
12VV1A0313	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	53	4
12VV1A0313	R41035	Micro Electro Mechnaical Systems	10	40	4
12VV1A0313	R41037	AUTOMOBILE ENGINEERING	15	36	4
12VV1A0313	R4103B	SIMULATION LAB	20	42	2
12VV1A0313	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	40	2
12VV1A0314	R41031	REFRIGERATION & AIR CONDITIONING	18	47	4
12VV1A0314	R41032	CAD/CAM	19	38	4
12VV1A0314	R41033	ALTERNATIVE SOURCES OF ENERGY	24	56	4
12VV1A0314	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	54	4
12VV1A0314	R41035	Micro Electro Mechnaical Systems	16	46	4
12VV1A0314	R41037	AUTOMOBILE ENGINEERING	20	48	4
12VV1A0314	R4103B	SIMULATION LAB	20	43	2
12VV1A0314	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	42	2
12VV1A0315	R41031	REFRIGERATION & AIR CONDITIONING	13	30	4
12VV1A0315	R41032	CAD/CAM	14	31	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0315	R41033	ALTERNATIVE SOURCES OF ENERGY	20	26	4
12VV1A0315	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	44	4
12VV1A0315	R41035	Micro Electro Mechnaical Systems	13	30	4
12VV1A0315	R41037	AUTOMOBILE ENGINEERING	15	26	4
12VV1A0315	R4103B	SIMULATION LAB	20	43	2
12VV1A0315	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	43	2
12VV1A0316	R41031	REFRIGERATION & AIR CONDITIONING	16	45	4
12VV1A0316	R41032	CAD/CAM	17	37	4
12VV1A0316	R41033	ALTERNATIVE SOURCES OF ENERGY	23	45	4
12VV1A0316	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	56	4
12VV1A0316	R41035	Micro Electro Mechnaical Systems	21	45	4
12VV1A0316	R41037	AUTOMOBILE ENGINEERING	20	41	4
12VV1A0316	R4103B	SIMULATION LAB	21	45	2
12VV1A0316	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	46	2
12VV1A0317	R41031	REFRIGERATION & AIR CONDITIONING	16	38	4
12VV1A0317	R41032	CAD/CAM	14	46	4
12VV1A0317	R41033	ALTERNATIVE SOURCES OF ENERGY	23	50	4
12VV1A0317	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	49	4
12VV1A0317	R41035	Micro Electro Mechnaical Systems	13	32	4
12VV1A0317	R41037	AUTOMOBILE ENGINEERING	19	46	4
12VV1A0317	R4103B	SIMULATION LAB	19	43	2
12VV1A0317	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	42	2
12VV1A0318	R41031	REFRIGERATION & AIR CONDITIONING	17	41	4
12VV1A0318	R41032	CAD/CAM	16	50	4
12VV1A0318	R41033	ALTERNATIVE SOURCES OF ENERGY	23	52	4
12VV1A0318	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	47	4
12VV1A0318	R41035	Micro Electro Mechnaical Systems	15	38	4
12VV1A0318	R41037	AUTOMOBILE ENGINEERING	18	47	4
12VV1A0318	R4103B	SIMULATION LAB	20	37	2
12VV1A0318	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	45	2
12VV1A0319	R41031	REFRIGERATION & AIR CONDITIONING	11	29	4
12VV1A0319	R41032	CAD/CAM	16	27	4
12VV1A0319	R41033	ALTERNATIVE SOURCES OF ENERGY	15	36	4
12VV1A0319	R41034	UNCONVENTIONAL MACHINING PROCESSES	15	37	4
12VV1A0319	R41035	Micro Electro Mechnaical Systems	13	32	4
12VV1A0319	R41037	AUTOMOBILE ENGINEERING	16	44	4
12VV1A0319	R4103B	SIMULATION LAB	21	38	2
12VV1A0319	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	42	2
12VV1A0320	R41031	REFRIGERATION & AIR CONDITIONING	21	37	4
12VV1A0320	R41032	CAD/CAM	14	45	4
12VV1A0320	R41033	ALTERNATIVE SOURCES OF ENERGY	23	44	4
12VV1A0320	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	53	4
12VV1A0320	R41035	Micro Electro Mechnaical Systems	18	33	4
12VV1A0320	R41037	AUTOMOBILE ENGINEERING	17	47	4
12VV1A0320	R4103B	SIMULATION LAB	21	45	2
12VV1A0320	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	46	2
12VV1A0321	R41031	REFRIGERATION & AIR CONDITIONING	15	43	4
12VV1A0321	R41032	CAD/CAM	13	39	4
12VV1A0321	R41033	ALTERNATIVE SOURCES OF ENERGY	23	47	4
12VV1A0321	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	42	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0321	R41035	Micro Electro Mechnaical Systems	17	50	4
12VV1A0321	R41037	AUTOMOBILE ENGINEERING	17	41	4
12VV1A0321	R4103B	SIMULATION LAB	20	41	2
12VV1A0321	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	36	2
12VV1A0322	R41031	REFRIGERATION & AIR CONDITIONING	13	36	4
12VV1A0322	R41032	CAD/CAM	15	32	4
12VV1A0322	R41033	ALTERNATIVE SOURCES OF ENERGY	23	58	4
12VV1A0322	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	47	4
12VV1A0322	R41035	Micro Electro Mechnaical Systems	16	53	4
12VV1A0322	R41037	AUTOMOBILE ENGINEERING	19	28	4
12VV1A0322	R4103B	SIMULATION LAB	20	40	2
12VV1A0322	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	42	2
12VV1A0323	R41031	REFRIGERATION & AIR CONDITIONING	13	36	4
12VV1A0323	R41032	CAD/CAM	9	34	4
12VV1A0323	R41033	ALTERNATIVE SOURCES OF ENERGY	18	31	4
12VV1A0323	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	48	4
12VV1A0323	R41035	Micro Electro Mechnaical Systems	12	37	4
12VV1A0323	R41037	AUTOMOBILE ENGINEERING	16	32	4
12VV1A0323	R4103B	SIMULATION LAB	19	38	2
12VV1A0323	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	36	2
12VV1A0324	R41031	REFRIGERATION & AIR CONDITIONING	18	39	4
12VV1A0324	R41032	CAD/CAM	20	39	4
12VV1A0324	R41033	ALTERNATIVE SOURCES OF ENERGY	22	60	4
12VV1A0324	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	55	4
12VV1A0324	R41035	Micro Electro Mechnaical Systems	14	46	4
12VV1A0324	R41037	AUTOMOBILE ENGINEERING	21	54	4
12VV1A0324	R4103B	SIMULATION LAB	20	43	2
12VV1A0324	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	40	2
12VV1A0325	R41031	REFRIGERATION & AIR CONDITIONING	17	41	4
12VV1A0325	R41032	CAD/CAM	14	44	4
12VV1A0325	R41033	ALTERNATIVE SOURCES OF ENERGY	24	51	4
12VV1A0325	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	56	4
12VV1A0325	R41035	Micro Electro Mechnaical Systems	15	46	4
12VV1A0325	R41037	AUTOMOBILE ENGINEERING	16	45	4
12VV1A0325	R4103B	SIMULATION LAB	18	42	2
12VV1A0325	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	38	2
12VV1A0326	R41031	REFRIGERATION & AIR CONDITIONING	9	31	4
12VV1A0326	R41032	CAD/CAM	11	37	4
12VV1A0326	R41033	ALTERNATIVE SOURCES OF ENERGY	22	43	4
12VV1A0326	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	49	4
12VV1A0326	R41035	Micro Electro Mechnaical Systems	10	45	4
12VV1A0326	R41037	AUTOMOBILE ENGINEERING	14	52	4
12VV1A0326	R4103B	SIMULATION LAB	16	37	2
12VV1A0326	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	47	2
12VV1A0327	R41031	REFRIGERATION & AIR CONDITIONING	12	36	4
12VV1A0327	R41032	CAD/CAM	13	38	4
12VV1A0327	R41033	ALTERNATIVE SOURCES OF ENERGY	22	47	4
12VV1A0327	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	54	4
12VV1A0327	R41035	Micro Electro Mechnaical Systems	10	45	4
12VV1A0327	R41037	AUTOMOBILE ENGINEERING	12	44	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0327	R4103B	SIMULATION LAB	18	38	2
12VV1A0327	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	38	2
12VV1A0329	R41031	REFRIGERATION & AIR CONDITIONING	16	31	4
12VV1A0329	R41032	CAD/CAM	15	35	4
12VV1A0329	R41033	ALTERNATIVE SOURCES OF ENERGY	20	40	4
12VV1A0329	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	41	4
12VV1A0329	R41035	Micro Electro Mechnaical Systems	12	31	4
12VV1A0329	R41037	AUTOMOBILE ENGINEERING	14	43	4
12VV1A0329	R4103B	SIMULATION LAB	18	39	2
12VV1A0329	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	34	2
12VV1A0330	R41031	REFRIGERATION & AIR CONDITIONING	16	34	4
12VV1A0330	R41032	CAD/CAM	14	43	4
12VV1A0330	R41033	ALTERNATIVE SOURCES OF ENERGY	23	50	4
12VV1A0330	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	54	4
12VV1A0330	R41035	Micro Electro Mechnaical Systems	13	53	4
12VV1A0330	R41037	AUTOMOBILE ENGINEERING	17	48	4
12VV1A0330	R4103B	SIMULATION LAB	18	38	2
12VV1A0330	R4103C	ADVANCED COMMUNICATION SKILLS LAB	19	40	2
12VV1A0331	R41031	REFRIGERATION & AIR CONDITIONING	17	35	4
12VV1A0331	R41032	CAD/CAM	12	44	4
12VV1A0331	R41033	ALTERNATIVE SOURCES OF ENERGY	16	49	4
12VV1A0331	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	54	4
12VV1A0331	R41035	Micro Electro Mechnaical Systems	12	42	4
12VV1A0331	R41037	AUTOMOBILE ENGINEERING	14	49	4
12VV1A0331	R4103B	SIMULATION LAB	21	36	2
12VV1A0331	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	39	2
12VV1A0332	R41031	REFRIGERATION & AIR CONDITIONING	15	39	4
12VV1A0332	R41032	CAD/CAM	13	38	4
12VV1A0332	R41033	ALTERNATIVE SOURCES OF ENERGY	21	52	4
12VV1A0332	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	52	4
12VV1A0332	R41035	Micro Electro Mechnaical Systems	15	32	4
12VV1A0332	R41037	AUTOMOBILE ENGINEERING	18	41	4
12VV1A0332	R4103B	SIMULATION LAB	23	45	2
12VV1A0332	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	41	2
12VV1A0333	R41031	REFRIGERATION & AIR CONDITIONING	17	42	4
12VV1A0333	R41032	CAD/CAM	12	43	4
12VV1A0333	R41033	ALTERNATIVE SOURCES OF ENERGY	23	52	4
12VV1A0333	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	52	4
12VV1A0333	R41035	Micro Electro Mechnaical Systems	15	33	4
12VV1A0333	R41037	AUTOMOBILE ENGINEERING	16	48	4
12VV1A0333	R4103B	SIMULATION LAB	20	43	2
12VV1A0333	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	42	2
12VV1A0334	R41031	REFRIGERATION & AIR CONDITIONING	15	37	4
12VV1A0334	R41032	CAD/CAM	13	44	4
12VV1A0334	R41033	ALTERNATIVE SOURCES OF ENERGY	23	42	4
12VV1A0334	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	48	4
12VV1A0334	R41035	Micro Electro Mechnaical Systems	16	36	4
12VV1A0334	R41037	AUTOMOBILE ENGINEERING	16	45	4
12VV1A0334	R4103B	SIMULATION LAB	21	44	2
12VV1A0334	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	42	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0335	R41031	REFRIGERATION & AIR CONDITIONING	12	47	4
12VV1A0335	R41032	CAD/CAM	15	45	4
12VV1A0335	R41033	ALTERNATIVE SOURCES OF ENERGY	21	59	4
12VV1A0335	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	56	4
12VV1A0335	R41035	Micro Electro Mechnaical Systems	11	33	4
12VV1A0335	R41037	AUTOMOBILE ENGINEERING	16	49	4
12VV1A0335	R4103B	SIMULATION LAB	18	36	2
12VV1A0335	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	36	2
12VV1A0336	R41031	REFRIGERATION & AIR CONDITIONING	14	39	4
12VV1A0336	R41032	CAD/CAM	14	42	4
12VV1A0336	R41033	ALTERNATIVE SOURCES OF ENERGY	21	47	4
12VV1A0336	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	0	0
12VV1A0336	R41035	Micro Electro Mechnaical Systems	14	38	4
12VV1A0336	R41037	AUTOMOBILE ENGINEERING	14	47	4
12VV1A0336	R4103B	SIMULATION LAB	14	36	2
12VV1A0336	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	38	2
12VV1A0337	R41031	REFRIGERATION & AIR CONDITIONING	16	40	4
12VV1A0337	R41032	CAD/CAM	13	45	4
12VV1A0337	R41033	ALTERNATIVE SOURCES OF ENERGY	17	51	4
12VV1A0337	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	51	4
12VV1A0337	R41035	Micro Electro Mechnaical Systems	13	38	4
12VV1A0337	R41037	AUTOMOBILE ENGINEERING	20	50	4
12VV1A0337	R4103B	SIMULATION LAB	20	39	2
12VV1A0337	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	45	2
12VV1A0338	R41031	REFRIGERATION & AIR CONDITIONING	21	47	4
12VV1A0338	R41032	CAD/CAM	15	52	4
12VV1A0338	R41033	ALTERNATIVE SOURCES OF ENERGY	21	58	4
12VV1A0338	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	58	4
12VV1A0338	R41035	Micro Electro Mechnaical Systems	17	56	4
12VV1A0338	R41037	AUTOMOBILE ENGINEERING	20	58	4
12VV1A0338	R4103B	SIMULATION LAB	20	43	2
12VV1A0338	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	43	2
12VV1A0339	R41031	REFRIGERATION & AIR CONDITIONING	17	44	4
12VV1A0339	R41032	CAD/CAM	18	49	4
12VV1A0339	R41033	ALTERNATIVE SOURCES OF ENERGY	23	56	4
12VV1A0339	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	64	4
12VV1A0339	R41035	Micro Electro Mechnaical Systems	16	45	4
12VV1A0339	R41037	AUTOMOBILE ENGINEERING	17	61	4
12VV1A0339	R4103B	SIMULATION LAB	20	39	2
12VV1A0339	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	41	2
12VV1A0340	R41031	REFRIGERATION & AIR CONDITIONING	12	34	4
12VV1A0340	R41032	CAD/CAM	16	39	4
12VV1A0340	R41033	ALTERNATIVE SOURCES OF ENERGY	19	42	4
12VV1A0340	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	51	4
12VV1A0340	R41035	Micro Electro Mechnaical Systems	13	33	4
12VV1A0340	R41037	AUTOMOBILE ENGINEERING	15	31	4
12VV1A0340	R4103B	SIMULATION LAB	20	41	2
12VV1A0340	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	42	2
12VV1A0341	R41031	REFRIGERATION & AIR CONDITIONING	16	33	4
12VV1A0341	R41032	CAD/CAM	14	37	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0341	R41033	ALTERNATIVE SOURCES OF ENERGY	20	41	4
12VV1A0341	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	50	4
12VV1A0341	R41035	Micro Electro Mechnaical Systems	12	34	4
12VV1A0341	R41037	AUTOMOBILE ENGINEERING	14	33	4
12VV1A0341	R4103B	SIMULATION LAB	19	40	2
12VV1A0341	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	41	2
12VV1A0342	R41031	REFRIGERATION & AIR CONDITIONING	13	42	4
12VV1A0342	R41032	CAD/CAM	18	49	4
12VV1A0342	R41033	ALTERNATIVE SOURCES OF ENERGY	15	61	4
12VV1A0342	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	53	4
12VV1A0342	R41035	Micro Electro Mechnaical Systems	9	52	4
12VV1A0342	R41037	AUTOMOBILE ENGINEERING	15	54	4
12VV1A0342	R4103B	SIMULATION LAB	18	38	2
12VV1A0342	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	46	2
12VV1A0343	R41031	REFRIGERATION & AIR CONDITIONING	17	41	4
12VV1A0343	R41032	CAD/CAM	12	37	4
12VV1A0343	R41033	ALTERNATIVE SOURCES OF ENERGY	23	43	4
12VV1A0343	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	58	4
12VV1A0343	R41035	Micro Electro Mechnaical Systems	11	41	4
12VV1A0343	R41037	AUTOMOBILE ENGINEERING	18	44	4
12VV1A0343	R4103B	SIMULATION LAB	21	45	2
12VV1A0343	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	41	2
12VV1A0344	R41031	REFRIGERATION & AIR CONDITIONING	14	35	4
12VV1A0344	R41032	CAD/CAM	12	37	4
12VV1A0344	R41033	ALTERNATIVE SOURCES OF ENERGY	17	34	4
12VV1A0344	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	48	4
12VV1A0344	R41035	Micro Electro Mechnaical Systems	8	37	4
12VV1A0344	R41037	AUTOMOBILE ENGINEERING	14	45	4
12VV1A0344	R4103B	SIMULATION LAB	20	40	2
12VV1A0344	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	35	2
12VV1A0345	R41031	REFRIGERATION & AIR CONDITIONING	19	26	4
12VV1A0345	R41032	CAD/CAM	13	40	4
12VV1A0345	R41033	ALTERNATIVE SOURCES OF ENERGY	16	31	4
12VV1A0345	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	41	4
12VV1A0345	R41035	Micro Electro Mechnaical Systems	12	33	4
12VV1A0345	R41037	AUTOMOBILE ENGINEERING	16	29	4
12VV1A0345	R4103B	SIMULATION LAB	16	40	2
12VV1A0345	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	38	2
12VV1A0346	R41031	REFRIGERATION & AIR CONDITIONING	17	37	4
12VV1A0346	R41032	CAD/CAM	15	40	4
12VV1A0346	R41033	ALTERNATIVE SOURCES OF ENERGY	21	57	4
12VV1A0346	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	51	4
12VV1A0346	R41035	Micro Electro Mechnaical Systems	15	42	4
12VV1A0346	R41037	AUTOMOBILE ENGINEERING	19	49	4
12VV1A0346	R4103B	SIMULATION LAB	20	41	2
12VV1A0346	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	42	2
12VV1A0347	R41031	REFRIGERATION & AIR CONDITIONING	22	56	4
12VV1A0347	R41032	CAD/CAM	20	53	4
12VV1A0347	R41033	ALTERNATIVE SOURCES OF ENERGY	23	63	4
12VV1A0347	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	59	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0347	R41035	Micro Electro Mechnaical Systems	18	54	4
12VV1A0347	R41037	AUTOMOBILE ENGINEERING	23	62	4
12VV1A0347	R4103B	SIMULATION LAB	23	46	2
12VV1A0347	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	45	2
12VV1A0348	R41031	REFRIGERATION & AIR CONDITIONING	17	45	4
12VV1A0348	R41032	CAD/CAM	17	39	4
12VV1A0348	R41033	ALTERNATIVE SOURCES OF ENERGY	20	56	4
12VV1A0348	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	57	4
12VV1A0348	R41035	Micro Electro Mechnaical Systems	12	39	4
12VV1A0348	R41037	AUTOMOBILE ENGINEERING	16	45	4
12VV1A0348	R4103B	SIMULATION LAB	19	37	2
12VV1A0348	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	43	2
12VV1A0349	R41031	REFRIGERATION & AIR CONDITIONING	18	40	4
12VV1A0349	R41032	CAD/CAM	19	35	4
12VV1A0349	R41033	ALTERNATIVE SOURCES OF ENERGY	16	50	4
12VV1A0349	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	54	4
12VV1A0349	R41035	Micro Electro Mechnaical Systems	11	42	4
12VV1A0349	R41037	AUTOMOBILE ENGINEERING	17	43	4
12VV1A0349	R4103B	SIMULATION LAB	18	44	2
12VV1A0349	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	46	2
12VV1A0350	R41031	REFRIGERATION & AIR CONDITIONING	9	31	4
12VV1A0350	R41032	CAD/CAM	12	28	4
12VV1A0350	R41033	ALTERNATIVE SOURCES OF ENERGY	13	35	4
12VV1A0350	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	53	4
12VV1A0350	R41035	Micro Electro Mechnaical Systems	9	33	4
12VV1A0350	R41037	AUTOMOBILE ENGINEERING	16	31	4
12VV1A0350	R4103B	SIMULATION LAB	19	42	2
12VV1A0350	R4103C	ADVANCED COMMUNICATION SKILLS LAB	18	34	2
12VV1A0351	R41031	REFRIGERATION & AIR CONDITIONING	18	35	4
12VV1A0351	R41032	CAD/CAM	15	37	4
12VV1A0351	R41033	ALTERNATIVE SOURCES OF ENERGY	18	51	4
12VV1A0351	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	54	4
12VV1A0351	R41035	Micro Electro Mechnaical Systems	13	38	4
12VV1A0351	R41037	AUTOMOBILE ENGINEERING	18	40	4
12VV1A0351	R4103B	SIMULATION LAB	22	45	2
12VV1A0351	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	40	2
12VV1A0352	R41031	REFRIGERATION & AIR CONDITIONING	15	49	4
12VV1A0352	R41032	CAD/CAM	19	58	4
12VV1A0352	R41033	ALTERNATIVE SOURCES OF ENERGY	22	53	4
12VV1A0352	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	62	4
12VV1A0352	R41035	Micro Electro Mechnaical Systems	17	45	4
12VV1A0352	R41037	AUTOMOBILE ENGINEERING	17	43	4
12VV1A0352	R4103B	SIMULATION LAB	22	43	2
12VV1A0352	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	45	2
12VV1A0353	R41031	REFRIGERATION & AIR CONDITIONING	16	26	4
12VV1A0353	R41032	CAD/CAM	8	32	4
12VV1A0353	R41033	ALTERNATIVE SOURCES OF ENERGY	17	32	4
12VV1A0353	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	49	4
12VV1A0353	R41035	Micro Electro Mechnaical Systems	10	32	4
12VV1A0353	R41037	AUTOMOBILE ENGINEERING	14	26	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0353	R4103B	SIMULATION LAB	17	37	2
12VV1A0353	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	32	2
12VV1A0354	R41031	REFRIGERATION & AIR CONDITIONING	19	39	4
12VV1A0354	R41032	CAD/CAM	15	43	4
12VV1A0354	R41033	ALTERNATIVE SOURCES OF ENERGY	23	41	4
12VV1A0354	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	58	4
12VV1A0354	R41035	Micro Electro Mechnaical Systems	15	42	4
12VV1A0354	R41037	AUTOMOBILE ENGINEERING	18	39	4
12VV1A0354	R4103B	SIMULATION LAB	22	33	2
12VV1A0354	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	41	2
12VV1A0355	R41031	REFRIGERATION & AIR CONDITIONING	17	34	4
12VV1A0355	R41032	CAD/CAM	12	36	4
12VV1A0355	R41033	ALTERNATIVE SOURCES OF ENERGY	17	32	4
12VV1A0355	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	50	4
12VV1A0355	R41035	Micro Electro Mechnaical Systems	13	31	4
12VV1A0355	R41037	AUTOMOBILE ENGINEERING	17	45	4
12VV1A0355	R4103B	SIMULATION LAB	22	44	2
12VV1A0355	R4103C	ADVANCED COMMUNICATION SKILLS LAB	19	35	2
12VV1A0356	R41031	REFRIGERATION & AIR CONDITIONING	16	37	4
12VV1A0356	R41032	CAD/CAM	14	40	4
12VV1A0356	R41033	ALTERNATIVE SOURCES OF ENERGY	18	45	4
12VV1A0356	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	52	4
12VV1A0356	R41035	Micro Electro Mechnaical Systems	14	35	4
12VV1A0356	R41037	AUTOMOBILE ENGINEERING	19	59	4
12VV1A0356	R4103B	SIMULATION LAB	22	45	2
12VV1A0356	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	42	2
12VV1A0357	R41031	REFRIGERATION & AIR CONDITIONING	16	37	4
12VV1A0357	R41032	CAD/CAM	12	41	4
12VV1A0357	R41033	ALTERNATIVE SOURCES OF ENERGY	23	47	4
12VV1A0357	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	53	4
12VV1A0357	R41035	Micro Electro Mechnaical Systems	15	41	4
12VV1A0357	R41037	AUTOMOBILE ENGINEERING	17	55	4
12VV1A0357	R4103B	SIMULATION LAB	22	41	2
12VV1A0357	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	45	2
12VV1A0359	R41031	REFRIGERATION & AIR CONDITIONING	17	34	4
12VV1A0359	R41032	CAD/CAM	15	42	4
12VV1A0359	R41033	ALTERNATIVE SOURCES OF ENERGY	17	48	4
12VV1A0359	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	54	4
12VV1A0359	R41035	Micro Electro Mechnaical Systems	16	32	4
12VV1A0359	R41037	AUTOMOBILE ENGINEERING	13	45	4
12VV1A0359	R4103B	SIMULATION LAB	22	39	2
12VV1A0359	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	41	2
12VV1A0360	R41031	REFRIGERATION & AIR CONDITIONING	16	33	4
12VV1A0360	R41032	CAD/CAM	13	42	4
12VV1A0360	R41033	ALTERNATIVE SOURCES OF ENERGY	15	43	4
12VV1A0360	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	53	4
12VV1A0360	R41035	Micro Electro Mechnaical Systems	15	28	4
12VV1A0360	R41037	AUTOMOBILE ENGINEERING	17	32	4
12VV1A0360	R4103B	SIMULATION LAB	16	37	2
12VV1A0360	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	45	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0401	R41041	OPTICAL COMMUNICATIONS	21	60	4
12VV1A0401	R41042	EMBEDDED SYSTEMS	23	54	4
12VV1A0401	R41043	DIGITAL IMAGE PROCESSING	21	58	4
12VV1A0401	R41044	RADAR SYSTEMS	21	56	4
12VV1A0401	R41046	ANALOG IC DESIGN	17	40	4
12VV1A0401	R41048	BIO_MEDICAL ENGINEERING	23	51	4
12VV1A0401	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12VV1A0401	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	45	2
12VV1A0402	R41041	OPTICAL COMMUNICATIONS	19	58	4
12VV1A0402	R41042	EMBEDDED SYSTEMS	16	48	4
12VV1A0402	R41043	DIGITAL IMAGE PROCESSING	11	39	4
12VV1A0402	R41044	RADAR SYSTEMS	19	61	4
12VV1A0402	R41046	ANALOG IC DESIGN	11	32	4
12VV1A0402	R41048	BIO_MEDICAL ENGINEERING	20	46	4
12VV1A0402	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	37	2
12VV1A0402	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	39	2
12VV1A0403	R41041	OPTICAL COMMUNICATIONS	24	56	4
12VV1A0403	R41042	EMBEDDED SYSTEMS	22	53	4
12VV1A0403	R41043	DIGITAL IMAGE PROCESSING	22	40	4
12VV1A0403	R41044	RADAR SYSTEMS	24	66	4
12VV1A0403	R41046	ANALOG IC DESIGN	18	42	4
12VV1A0403	R41048	BIO_MEDICAL ENGINEERING	21	50	4
12VV1A0403	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	40	2
12VV1A0403	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	45	2
12VV1A0404	R41041	OPTICAL COMMUNICATIONS	24	49	4
12VV1A0404	R41042	EMBEDDED SYSTEMS	23	43	4
12VV1A0404	R41043	DIGITAL IMAGE PROCESSING	13	39	4
12VV1A0404	R41044	RADAR SYSTEMS	19	62	4
12VV1A0404	R41046	ANALOG IC DESIGN	14	32	4
12VV1A0404	R41048	BIO_MEDICAL ENGINEERING	20	36	4
12VV1A0404	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	41	2
12VV1A0404	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12VV1A0405	R41041	OPTICAL COMMUNICATIONS	21	56	4
12VV1A0405	R41042	EMBEDDED SYSTEMS	22	54	4
12VV1A0405	R41043	DIGITAL IMAGE PROCESSING	18	47	4
12VV1A0405	R41044	RADAR SYSTEMS	19	62	4
12VV1A0405	R41046	ANALOG IC DESIGN	17	36	4
12VV1A0405	R41048	BIO_MEDICAL ENGINEERING	20	44	4
12VV1A0405	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	38	2
12VV1A0405	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	39	2
12VV1A0406	R41041	OPTICAL COMMUNICATIONS	22	60	4
12VV1A0406	R41042	EMBEDDED SYSTEMS	23	55	4
12VV1A0406	R41043	DIGITAL IMAGE PROCESSING	21	58	4
12VV1A0406	R41044	RADAR SYSTEMS	20	71	4
12VV1A0406	R41046	ANALOG IC DESIGN	17	44	4
12VV1A0406	R41048	BIO_MEDICAL ENGINEERING	20	51	4
12VV1A0406	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	34	2
12VV1A0406	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	41	2
12VV1A0407	R41041	OPTICAL COMMUNICATIONS	19	59	4
12VV1A0407	R41042	EMBEDDED SYSTEMS	21	53	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0407	R41043	DIGITAL IMAGE PROCESSING	17	43	4
12VV1A0407	R41044	RADAR SYSTEMS	20	72	4
12VV1A0407	R41046	ANALOG IC DESIGN	15	36	4
12VV1A0407	R41048	BIO_MEDICAL ENGINEERING	21	47	4
12VV1A0407	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	40	2
12VV1A0407	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12VV1A0408	R41041	OPTICAL COMMUNICATIONS	20	62	4
12VV1A0408	R41042	EMBEDDED SYSTEMS	23	47	4
12VV1A0408	R41043	DIGITAL IMAGE PROCESSING	20	36	4
12VV1A0408	R41044	RADAR SYSTEMS	20	68	4
12VV1A0408	R41046	ANALOG IC DESIGN	14	36	4
12VV1A0408	R41048	BIO_MEDICAL ENGINEERING	22	49	4
12VV1A0408	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	43	2
12VV1A0408	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	44	2
12VV1A0409	R41041	OPTICAL COMMUNICATIONS	23	54	4
12VV1A0409	R41042	EMBEDDED SYSTEMS	20	46	4
12VV1A0409	R41043	DIGITAL IMAGE PROCESSING	19	49	4
12VV1A0409	R41044	RADAR SYSTEMS	21	68	4
12VV1A0409	R41046	ANALOG IC DESIGN	15	38	4
12VV1A0409	R41048	BIO_MEDICAL ENGINEERING	23	43	4
12VV1A0409	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	43	2
12VV1A0409	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	41	2
12VV1A0410	R41041	OPTICAL COMMUNICATIONS	19	51	4
12VV1A0410	R41042	EMBEDDED SYSTEMS	21	32	4
12VV1A0410	R41043	DIGITAL IMAGE PROCESSING	16	32	4
12VV1A0410	R41044	RADAR SYSTEMS	19	57	4
12VV1A0410	R41046	ANALOG IC DESIGN	14	26	4
12VV1A0410	R41048	BIO_MEDICAL ENGINEERING	22	42	4
12VV1A0410	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	41	2
12VV1A0410	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12VV1A0411	R41041	OPTICAL COMMUNICATIONS	20	54	4
12VV1A0411	R41042	EMBEDDED SYSTEMS	24	50	4
12VV1A0411	R41043	DIGITAL IMAGE PROCESSING	20	44	4
12VV1A0411	R41044	RADAR SYSTEMS	20	61	4
12VV1A0411	R41046	ANALOG IC DESIGN	13	40	4
12VV1A0411	R41048	BIO_MEDICAL ENGINEERING	20	47	4
12VV1A0411	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	39	2
12VV1A0411	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	40	2
12VV1A0412	R41041	OPTICAL COMMUNICATIONS	23	56	4
12VV1A0412	R41042	EMBEDDED SYSTEMS	24	48	4
12VV1A0412	R41043	DIGITAL IMAGE PROCESSING	16	49	4
12VV1A0412	R41044	RADAR SYSTEMS	21	59	4
12VV1A0412	R41046	ANALOG IC DESIGN	18	32	4
12VV1A0412	R41048	BIO_MEDICAL ENGINEERING	21	41	4
12VV1A0412	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0412	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12VV1A0413	R41041	OPTICAL COMMUNICATIONS	21	52	4
12VV1A0413	R41042	EMBEDDED SYSTEMS	22	50	4
12VV1A0413	R41043	DIGITAL IMAGE PROCESSING	19	49	4
12VV1A0413	R41044	RADAR SYSTEMS	21	63	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0413	R41046	ANALOG IC DESIGN	13	36	4
12VV1A0413	R41048	BIO_MEDICAL ENGINEERING	21	47	4
12VV1A0413	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0413	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0414	R41041	OPTICAL COMMUNICATIONS	23	50	4
12VV1A0414	R41042	EMBEDDED SYSTEMS	23	51	4
12VV1A0414	R41043	DIGITAL IMAGE PROCESSING	21	40	4
12VV1A0414	R41044	RADAR SYSTEMS	21	60	4
12VV1A0414	R41046	ANALOG IC DESIGN	16	28	4
12VV1A0414	R41048	BIO_MEDICAL ENGINEERING	20	45	4
12VV1A0414	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	35	2
12VV1A0414	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	37	2
12VV1A0415	R41041	OPTICAL COMMUNICATIONS	20	45	4
12VV1A0415	R41042	EMBEDDED SYSTEMS	21	48	4
12VV1A0415	R41043	DIGITAL IMAGE PROCESSING	15	44	4
12VV1A0415	R41044	RADAR SYSTEMS	20	67	4
12VV1A0415	R41046	ANALOG IC DESIGN	12	28	4
12VV1A0415	R41048	BIO_MEDICAL ENGINEERING	20	43	4
12VV1A0415	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0415	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	39	2
12VV1A0416	R41041	OPTICAL COMMUNICATIONS	19	46	4
12VV1A0416	R41042	EMBEDDED SYSTEMS	19	37	4
12VV1A0416	R41043	DIGITAL IMAGE PROCESSING	14	31	4
12VV1A0416	R41044	RADAR SYSTEMS	20	51	4
12VV1A0416	R41046	ANALOG IC DESIGN	16	26	4
12VV1A0416	R41048	BIO_MEDICAL ENGINEERING	20	38	4
12VV1A0416	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	35	2
12VV1A0416	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	41	2
12VV1A0417	R41041	OPTICAL COMMUNICATIONS	24	47	4
12VV1A0417	R41042	EMBEDDED SYSTEMS	25	55	4
12VV1A0417	R41043	DIGITAL IMAGE PROCESSING	20	56	4
12VV1A0417	R41044	RADAR SYSTEMS	20	64	4
12VV1A0417	R41046	ANALOG IC DESIGN	15	36	4
12VV1A0417	R41048	BIO_MEDICAL ENGINEERING	21	48	4
12VV1A0417	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	41	2
12VV1A0417	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	46	2
12VV1A0418	R41041	OPTICAL COMMUNICATIONS	22	60	4
12VV1A0418	R41042	EMBEDDED SYSTEMS	23	53	4
12VV1A0418	R41043	DIGITAL IMAGE PROCESSING	15	28	4
12VV1A0418	R41044	RADAR SYSTEMS	20	-1	0
12VV1A0418	R41046	ANALOG IC DESIGN	20	28	4
12VV1A0418	R41048	BIO_MEDICAL ENGINEERING	20	44	4
12VV1A0418	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	34	2
12VV1A0418	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	16	37	2
12VV1A0419	R41041	OPTICAL COMMUNICATIONS	24	60	4
12VV1A0419	R41042	EMBEDDED SYSTEMS	25	55	4
12VV1A0419	R41043	DIGITAL IMAGE PROCESSING	22	47	4
12VV1A0419	R41044	RADAR SYSTEMS	21	66	4
12VV1A0419	R41046	ANALOG IC DESIGN	19	34	4
12VV1A0419	R41048	BIO_MEDICAL ENGINEERING	22	49	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0419	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	41	2
12VV1A0419	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	45	2
12VV1A0420	R41041	OPTICAL COMMUNICATIONS	23	63	4
12VV1A0420	R41042	EMBEDDED SYSTEMS	24	54	4
12VV1A0420	R41043	DIGITAL IMAGE PROCESSING	19	40	4
12VV1A0420	R41044	RADAR SYSTEMS	20	60	4
12VV1A0420	R41046	ANALOG IC DESIGN	18	32	4
12VV1A0420	R41048	BIO_MEDICAL ENGINEERING	22	50	4
12VV1A0420	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	41	2
12VV1A0420	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12VV1A0421	R41041	OPTICAL COMMUNICATIONS	20	49	4
12VV1A0421	R41042	EMBEDDED SYSTEMS	22	50	4
12VV1A0421	R41043	DIGITAL IMAGE PROCESSING	19	39	4
12VV1A0421	R41044	RADAR SYSTEMS	20	61	4
12VV1A0421	R41046	ANALOG IC DESIGN	15	30	4
12VV1A0421	R41048	BIO_MEDICAL ENGINEERING	21	38	4
12VV1A0421	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0421	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	43	2
12VV1A0422	R41041	OPTICAL COMMUNICATIONS	20	62	4
12VV1A0422	R41042	EMBEDDED SYSTEMS	24	53	4
12VV1A0422	R41043	DIGITAL IMAGE PROCESSING	19	49	4
12VV1A0422	R41044	RADAR SYSTEMS	20	62	4
12VV1A0422	R41046	ANALOG IC DESIGN	15	38	4
12VV1A0422	R41048	BIO_MEDICAL ENGINEERING	20	34	4
12VV1A0422	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	37	2
12VV1A0422	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0423	R41041	OPTICAL COMMUNICATIONS	21	56	4
12VV1A0423	R41042	EMBEDDED SYSTEMS	21	47	4
12VV1A0423	R41043	DIGITAL IMAGE PROCESSING	21	36	4
12VV1A0423	R41044	RADAR SYSTEMS	21	66	4
12VV1A0423	R41046	ANALOG IC DESIGN	16	34	4
12VV1A0423	R41048	BIO_MEDICAL ENGINEERING	20	40	4
12VV1A0423	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	37	2
12VV1A0423	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	39	2
12VV1A0424	R41041	OPTICAL COMMUNICATIONS	21	41	4
12VV1A0424	R41042	EMBEDDED SYSTEMS	22	34	4
12VV1A0424	R41043	DIGITAL IMAGE PROCESSING	19	28	4
12VV1A0424	R41044	RADAR SYSTEMS	21	58	4
12VV1A0424	R41046	ANALOG IC DESIGN	15	30	4
12VV1A0424	R41048	BIO_MEDICAL ENGINEERING	20	34	4
12VV1A0424	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	36	2
12VV1A0424	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12VV1A0425	R41041	OPTICAL COMMUNICATIONS	20	50	4
12VV1A0425	R41042	EMBEDDED SYSTEMS	20	37	4
12VV1A0425	R41043	DIGITAL IMAGE PROCESSING	18	30	4
12VV1A0425	R41044	RADAR SYSTEMS	20	60	4
12VV1A0425	R41046	ANALOG IC DESIGN	12	30	4
12VV1A0425	R41048	BIO_MEDICAL ENGINEERING	20	42	4
12VV1A0425	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	37	2
12VV1A0425	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	39	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0426	R41041	OPTICAL COMMUNICATIONS	21	51	4
12VV1A0426	R41042	EMBEDDED SYSTEMS	23	48	4
12VV1A0426	R41043	DIGITAL IMAGE PROCESSING	22	44	4
12VV1A0426	R41044	RADAR SYSTEMS	22	63	4
12VV1A0426	R41046	ANALOG IC DESIGN	14	36	4
12VV1A0426	R41048	BIO_MEDICAL ENGINEERING	20	44	4
12VV1A0426	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0426	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0427	R41041	OPTICAL COMMUNICATIONS	24	54	4
12VV1A0427	R41042	EMBEDDED SYSTEMS	22	51	4
12VV1A0427	R41043	DIGITAL IMAGE PROCESSING	17	37	4
12VV1A0427	R41044	RADAR SYSTEMS	20	61	4
12VV1A0427	R41046	ANALOG IC DESIGN	18	36	4
12VV1A0427	R41048	BIO_MEDICAL ENGINEERING	21	48	4
12VV1A0427	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0427	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0428	R41041	OPTICAL COMMUNICATIONS	24	54	4
12VV1A0428	R41042	EMBEDDED SYSTEMS	23	47	4
12VV1A0428	R41043	DIGITAL IMAGE PROCESSING	19	46	4
12VV1A0428	R41044	RADAR SYSTEMS	21	62	4
12VV1A0428	R41046	ANALOG IC DESIGN	18	38	4
12VV1A0428	R41048	BIO_MEDICAL ENGINEERING	21	51	4
12VV1A0428	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	36	2
12VV1A0428	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	42	2
12VV1A0429	R41041	OPTICAL COMMUNICATIONS	22	57	4
12VV1A0429	R41042	EMBEDDED SYSTEMS	23	50	4
12VV1A0429	R41043	DIGITAL IMAGE PROCESSING	23	43	4
12VV1A0429	R41044	RADAR SYSTEMS	22	69	4
12VV1A0429	R41046	ANALOG IC DESIGN	16	36	4
12VV1A0429	R41048	BIO_MEDICAL ENGINEERING	21	54	4
12VV1A0429	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	40	2
12VV1A0429	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	40	2
12VV1A0430	R41041	OPTICAL COMMUNICATIONS	24	52	4
12VV1A0430	R41042	EMBEDDED SYSTEMS	23	50	4
12VV1A0430	R41043	DIGITAL IMAGE PROCESSING	20	44	4
12VV1A0430	R41044	RADAR SYSTEMS	21	65	4
12VV1A0430	R41046	ANALOG IC DESIGN	18	34	4
12VV1A0430	R41048	BIO_MEDICAL ENGINEERING	21	52	4
12VV1A0430	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0430	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	42	2
12VV1A0431	R41041	OPTICAL COMMUNICATIONS	21	55	4
12VV1A0431	R41042	EMBEDDED SYSTEMS	23	51	4
12VV1A0431	R41043	DIGITAL IMAGE PROCESSING	22	51	4
12VV1A0431	R41044	RADAR SYSTEMS	20	67	4
12VV1A0431	R41046	ANALOG IC DESIGN	17	36	4
12VV1A0431	R41048	BIO_MEDICAL ENGINEERING	22	49	4
12VV1A0431	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	42	2
12VV1A0431	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	44	2
12VV1A0432	R41041	OPTICAL COMMUNICATIONS	24	52	4
12VV1A0432	R41042	EMBEDDED SYSTEMS	23	49	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0432	R41043	DIGITAL IMAGE PROCESSING	14	44	4
12VV1A0432	R41044	RADAR SYSTEMS	20	62	4
12VV1A0432	R41046	ANALOG IC DESIGN	13	30	4
12VV1A0432	R41048	BIO_MEDICAL ENGINEERING	21	47	4
12VV1A0432	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0432	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	39	2
12VV1A0433	R41041	OPTICAL COMMUNICATIONS	22	55	4
12VV1A0433	R41042	EMBEDDED SYSTEMS	21	45	4
12VV1A0433	R41043	DIGITAL IMAGE PROCESSING	16	37	4
12VV1A0433	R41044	RADAR SYSTEMS	21	61	4
12VV1A0433	R41046	ANALOG IC DESIGN	15	32	4
12VV1A0433	R41048	BIO_MEDICAL ENGINEERING	21	36	4
12VV1A0433	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	41	2
12VV1A0433	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	41	2
12VV1A0434	R41041	OPTICAL COMMUNICATIONS	19	49	4
12VV1A0434	R41042	EMBEDDED SYSTEMS	22	57	4
12VV1A0434	R41043	DIGITAL IMAGE PROCESSING	20	41	4
12VV1A0434	R41044	RADAR SYSTEMS	22	69	4
12VV1A0434	R41046	ANALOG IC DESIGN	21	32	4
12VV1A0434	R41048	BIO_MEDICAL ENGINEERING	21	42	4
12VV1A0434	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	41	2
12VV1A0434	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12VV1A0435	R41041	OPTICAL COMMUNICATIONS	24	51	4
12VV1A0435	R41042	EMBEDDED SYSTEMS	23	44	4
12VV1A0435	R41043	DIGITAL IMAGE PROCESSING	21	44	4
12VV1A0435	R41044	RADAR SYSTEMS	21	63	4
12VV1A0435	R41046	ANALOG IC DESIGN	17	44	4
12VV1A0435	R41048	BIO_MEDICAL ENGINEERING	20	39	4
12VV1A0435	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	43	2
12VV1A0435	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0436	R41041	OPTICAL COMMUNICATIONS	24	65	4
12VV1A0436	R41042	EMBEDDED SYSTEMS	21	33	4
12VV1A0436	R41043	DIGITAL IMAGE PROCESSING	18	33	4
12VV1A0436	R41044	RADAR SYSTEMS	21	61	4
12VV1A0436	R41046	ANALOG IC DESIGN	13	30	4
12VV1A0436	R41048	BIO_MEDICAL ENGINEERING	20	47	4
12VV1A0436	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	40	2
12VV1A0436	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	42	2
12VV1A0437	R41041	OPTICAL COMMUNICATIONS	22	47	4
12VV1A0437	R41042	EMBEDDED SYSTEMS	21	41	4
12VV1A0437	R41043	DIGITAL IMAGE PROCESSING	15	44	4
12VV1A0437	R41044	RADAR SYSTEMS	22	61	4
12VV1A0437	R41046	ANALOG IC DESIGN	16	30	4
12VV1A0437	R41048	BIO_MEDICAL ENGINEERING	21	33	4
12VV1A0437	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	42	2
12VV1A0437	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	42	2
12VV1A0438	R41041	OPTICAL COMMUNICATIONS	24	60	4
12VV1A0438	R41042	EMBEDDED SYSTEMS	24	52	4
12VV1A0438	R41043	DIGITAL IMAGE PROCESSING	20	35	4
12VV1A0438	R41044	RADAR SYSTEMS	21	63	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0438	R41046	ANALOG IC DESIGN	19	36	4
12VV1A0438	R41048	BIO_MEDICAL ENGINEERING	22	47	4
12VV1A0438	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	43	2
12VV1A0438	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0439	R41041	OPTICAL COMMUNICATIONS	23	48	4
12VV1A0439	R41042	EMBEDDED SYSTEMS	22	52	4
12VV1A0439	R41043	DIGITAL IMAGE PROCESSING	15	41	4
12VV1A0439	R41044	RADAR SYSTEMS	21	60	4
12VV1A0439	R41046	ANALOG IC DESIGN	16	38	4
12VV1A0439	R41048	BIO_MEDICAL ENGINEERING	22	45	4
12VV1A0439	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	42	2
12VV1A0439	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12VV1A0440	R41041	OPTICAL COMMUNICATIONS	21	54	4
12VV1A0440	R41042	EMBEDDED SYSTEMS	22	49	4
12VV1A0440	R41043	DIGITAL IMAGE PROCESSING	18	56	4
12VV1A0440	R41044	RADAR SYSTEMS	20	72	4
12VV1A0440	R41046	ANALOG IC DESIGN	14	32	4
12VV1A0440	R41048	BIO_MEDICAL ENGINEERING	23	53	4
12VV1A0440	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	42	2
12VV1A0440	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0441	R41041	OPTICAL COMMUNICATIONS	21	52	4
12VV1A0441	R41042	EMBEDDED SYSTEMS	23	43	4
12VV1A0441	R41043	DIGITAL IMAGE PROCESSING	21	29	4
12VV1A0441	R41044	RADAR SYSTEMS	23	58	4
12VV1A0441	R41046	ANALOG IC DESIGN	18	34	4
12VV1A0441	R41048	BIO_MEDICAL ENGINEERING	22	50	4
12VV1A0441	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	39	2
12VV1A0441	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0442	R41041	OPTICAL COMMUNICATIONS	23	60	4
12VV1A0442	R41042	EMBEDDED SYSTEMS	22	49	4
12VV1A0442	R41043	DIGITAL IMAGE PROCESSING	22	42	4
12VV1A0442	R41044	RADAR SYSTEMS	21	66	4
12VV1A0442	R41046	ANALOG IC DESIGN	19	42	4
12VV1A0442	R41048	BIO_MEDICAL ENGINEERING	21	45	4
12VV1A0442	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	45	2
12VV1A0442	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0443	R41041	OPTICAL COMMUNICATIONS	24	62	4
12VV1A0443	R41042	EMBEDDED SYSTEMS	21	50	4
12VV1A0443	R41043	DIGITAL IMAGE PROCESSING	22	35	4
12VV1A0443	R41044	RADAR SYSTEMS	23	65	4
12VV1A0443	R41046	ANALOG IC DESIGN	16	44	4
12VV1A0443	R41048	BIO_MEDICAL ENGINEERING	20	47	4
12VV1A0443	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	40	2
12VV1A0443	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12VV1A0444	R41041	OPTICAL COMMUNICATIONS	19	48	4
12VV1A0444	R41042	EMBEDDED SYSTEMS	23	48	4
12VV1A0444	R41043	DIGITAL IMAGE PROCESSING	18	33	4
12VV1A0444	R41044	RADAR SYSTEMS	20	63	4
12VV1A0444	R41046	ANALOG IC DESIGN	16	38	4
12VV1A0444	R41048	BIO_MEDICAL ENGINEERING	22	53	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0444	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	38	2
12VV1A0444	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	41	2
12VV1A0445	R41041	OPTICAL COMMUNICATIONS	23	54	4
12VV1A0445	R41042	EMBEDDED SYSTEMS	22	59	4
12VV1A0445	R41043	DIGITAL IMAGE PROCESSING	18	41	4
12VV1A0445	R41044	RADAR SYSTEMS	24	62	4
12VV1A0445	R41046	ANALOG IC DESIGN	16	38	4
12VV1A0445	R41048	BIO_MEDICAL ENGINEERING	21	60	4
12VV1A0445	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	42	2
12VV1A0445	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	45	2
12VV1A0446	R41041	OPTICAL COMMUNICATIONS	22	70	4
12VV1A0446	R41042	EMBEDDED SYSTEMS	24	44	4
12VV1A0446	R41043	DIGITAL IMAGE PROCESSING	22	31	4
12VV1A0446	R41044	RADAR SYSTEMS	21	60	4
12VV1A0446	R41046	ANALOG IC DESIGN	14	36	4
12VV1A0446	R41048	BIO_MEDICAL ENGINEERING	22	51	4
12VV1A0446	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12VV1A0446	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	45	2
12VV1A0447	R41041	OPTICAL COMMUNICATIONS	21	58	4
12VV1A0447	R41042	EMBEDDED SYSTEMS	20	42	4
12VV1A0447	R41043	DIGITAL IMAGE PROCESSING	19	43	4
12VV1A0447	R41044	RADAR SYSTEMS	20	63	4
12VV1A0447	R41046	ANALOG IC DESIGN	15	32	4
12VV1A0447	R41048	BIO_MEDICAL ENGINEERING	22	48	4
12VV1A0447	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	42	2
12VV1A0447	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	44	2
12VV1A0448	R41041	OPTICAL COMMUNICATIONS	22	41	4
12VV1A0448	R41042	EMBEDDED SYSTEMS	20	38	4
12VV1A0448	R41043	DIGITAL IMAGE PROCESSING	18	41	4
12VV1A0448	R41044	RADAR SYSTEMS	22	60	4
12VV1A0448	R41046	ANALOG IC DESIGN	11	29	4
12VV1A0448	R41048	BIO_MEDICAL ENGINEERING	20	45	4
12VV1A0448	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	42	2
12VV1A0448	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	44	2
12VV1A0449	R41041	OPTICAL COMMUNICATIONS	22	47	4
12VV1A0449	R41042	EMBEDDED SYSTEMS	21	47	4
12VV1A0449	R41043	DIGITAL IMAGE PROCESSING	18	34	4
12VV1A0449	R41044	RADAR SYSTEMS	21	58	4
12VV1A0449	R41046	ANALOG IC DESIGN	17	38	4
12VV1A0449	R41048	BIO_MEDICAL ENGINEERING	21	49	4
12VV1A0449	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	41	2
12VV1A0449	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12VV1A0450	R41041	OPTICAL COMMUNICATIONS	20	46	4
12VV1A0450	R41042	EMBEDDED SYSTEMS	21	42	4
12VV1A0450	R41043	DIGITAL IMAGE PROCESSING	16	33	4
12VV1A0450	R41044	RADAR SYSTEMS	21	42	4
12VV1A0450	R41046	ANALOG IC DESIGN	17	36	4
12VV1A0450	R41048	BIO_MEDICAL ENGINEERING	20	45	4
12VV1A0450	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	39	2
12VV1A0450	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	41	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0451	R41041	OPTICAL COMMUNICATIONS	22	44	4
12VV1A0451	R41042	EMBEDDED SYSTEMS	23	36	4
12VV1A0451	R41043	DIGITAL IMAGE PROCESSING	17	43	4
12VV1A0451	R41044	RADAR SYSTEMS	21	63	4
12VV1A0451	R41046	ANALOG IC DESIGN	17	40	4
12VV1A0451	R41048	BIO_MEDICAL ENGINEERING	21	39	4
12VV1A0451	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	39	2
12VV1A0451	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	42	2
12VV1A0452	R41041	OPTICAL COMMUNICATIONS	21	43	4
12VV1A0452	R41042	EMBEDDED SYSTEMS	24	46	4
12VV1A0452	R41043	DIGITAL IMAGE PROCESSING	20	37	4
12VV1A0452	R41044	RADAR SYSTEMS	21	60	4
12VV1A0452	R41046	ANALOG IC DESIGN	16	30	4
12VV1A0452	R41048	BIO_MEDICAL ENGINEERING	20	47	4
12VV1A0452	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	41	2
12VV1A0452	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	44	2
12VV1A0453	R41041	OPTICAL COMMUNICATIONS	23	43	4
12VV1A0453	R41042	EMBEDDED SYSTEMS	22	44	4
12VV1A0453	R41043	DIGITAL IMAGE PROCESSING	20	43	4
12VV1A0453	R41044	RADAR SYSTEMS	22	66	4
12VV1A0453	R41046	ANALOG IC DESIGN	16	36	4
12VV1A0453	R41048	BIO_MEDICAL ENGINEERING	21	45	4
12VV1A0453	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	43	2
12VV1A0453	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	41	2
12VV1A0454	R41041	OPTICAL COMMUNICATIONS	21	51	4
12VV1A0454	R41042	EMBEDDED SYSTEMS	23	57	4
12VV1A0454	R41043	DIGITAL IMAGE PROCESSING	22	48	4
12VV1A0454	R41044	RADAR SYSTEMS	22	71	4
12VV1A0454	R41046	ANALOG IC DESIGN	17	44	4
12VV1A0454	R41048	BIO_MEDICAL ENGINEERING	22	56	4
12VV1A0454	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	42	2
12VV1A0454	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12VV1A0456	R41041	OPTICAL COMMUNICATIONS	21	44	4
12VV1A0456	R41042	EMBEDDED SYSTEMS	20	47	4
12VV1A0456	R41043	DIGITAL IMAGE PROCESSING	17	43	4
12VV1A0456	R41044	RADAR SYSTEMS	20	62	4
12VV1A0456	R41046	ANALOG IC DESIGN	17	34	4
12VV1A0456	R41048	BIO_MEDICAL ENGINEERING	22	52	4
12VV1A0456	R4104B	DIGITAL SIGNAL PROCESSING LAB	20	39	2
12VV1A0456	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12VV1A0457	R41041	OPTICAL COMMUNICATIONS	21	35	4
12VV1A0457	R41042	EMBEDDED SYSTEMS	19	35	4
12VV1A0457	R41043	DIGITAL IMAGE PROCESSING	12	28	4
12VV1A0457	R41044	RADAR SYSTEMS	16	30	4
12VV1A0457	R41046	ANALOG IC DESIGN	15	26	4
12VV1A0457	R41048	BIO_MEDICAL ENGINEERING	21	42	4
12VV1A0457	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	40	2
12VV1A0457	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	42	2
12VV1A0459	R41041	OPTICAL COMMUNICATIONS	22	55	4
12VV1A0459	R41042	EMBEDDED SYSTEMS	23	52	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0459	R41043	DIGITAL IMAGE PROCESSING	21	45	4
12VV1A0459	R41044	RADAR SYSTEMS	20	64	4
12VV1A0459	R41046	ANALOG IC DESIGN	17	38	4
12VV1A0459	R41048	BIO_MEDICAL ENGINEERING	20	50	4
12VV1A0459	R4104B	DIGITAL SIGNAL PROCESSING LAB	21	42	2
12VV1A0459	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12VV1A0460	R41041	OPTICAL COMMUNICATIONS	21	48	4
12VV1A0460	R41042	EMBEDDED SYSTEMS	21	34	4
12VV1A0460	R41043	DIGITAL IMAGE PROCESSING	20	40	4
12VV1A0460	R41044	RADAR SYSTEMS	21	52	4
12VV1A0460	R41046	ANALOG IC DESIGN	17	26	4
12VV1A0460	R41048	BIO_MEDICAL ENGINEERING	21	50	4
12VV1A0460	R4104B	DIGITAL SIGNAL PROCESSING LAB	22	40	2
12VV1A0460	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12VV1A0501	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	35	4
12VV1A0501	R41052	UML & DESIGN PATTERNS	21	36	4
12VV1A0501	R41053	DATA WARE HOUSING AND DATA MINING	21	48	4
12VV1A0501	R41054	MOBILE COMPUTING	15	47	4
12VV1A0501	R41058	CYBER LAWS	19	44	4
12VV1A0501	R4105A	CLOUD COMPUTING	19	47	4
12VV1A0501	R4105E	UML & DESIGN PATTERNS LAB	23	42	2
12VV1A0501	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	38	2
12VV1A0502	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	30	4
12VV1A0502	R41052	UML & DESIGN PATTERNS	20	35	4
12VV1A0502	R41053	DATA WARE HOUSING AND DATA MINING	19	52	4
12VV1A0502	R41054	MOBILE COMPUTING	14	47	4
12VV1A0502	R41058	CYBER LAWS	17	39	4
12VV1A0502	R4105A	CLOUD COMPUTING	20	45	4
12VV1A0502	R4105E	UML & DESIGN PATTERNS LAB	20	37	2
12VV1A0502	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	14	39	2
12VV1A0503	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	38	4
12VV1A0503	R41052	UML & DESIGN PATTERNS	22	45	4
12VV1A0503	R41053	DATA WARE HOUSING AND DATA MINING	20	46	4
12VV1A0503	R41054	MOBILE COMPUTING	15	50	4
12VV1A0503	R41058	CYBER LAWS	18	50	4
12VV1A0503	R4105A	CLOUD COMPUTING	21	36	4
12VV1A0503	R4105E	UML & DESIGN PATTERNS LAB	22	42	2
12VV1A0503	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	24	45	2
12VV1A0504	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	28	4
12VV1A0504	R41052	UML & DESIGN PATTERNS	20	38	4
12VV1A0504	R41053	DATA WARE HOUSING AND DATA MINING	17	44	4
12VV1A0504	R41054	MOBILE COMPUTING	15	37	4
12VV1A0504	R41058	CYBER LAWS	18	45	4
12VV1A0504	R4105A	CLOUD COMPUTING	21	41	4
12VV1A0504	R4105E	UML & DESIGN PATTERNS LAB	21	38	2
12VV1A0504	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	17	30	2
12VV1A0505	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	10	48	4
12VV1A0505	R41052	UML & DESIGN PATTERNS	18	45	4
12VV1A0505	R41053	DATA WARE HOUSING AND DATA MINING	17	40	4
12VV1A0505	R41054	MOBILE COMPUTING	18	45	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0505	R41058	CYBER LAWS	18	48	4
12VV1A0505	R4105A	CLOUD COMPUTING	20	46	4
12VV1A0505	R4105E	UML & DESIGN PATTERNS LAB	21	40	2
12VV1A0505	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12VV1A0506	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	34	4
12VV1A0506	R41052	UML & DESIGN PATTERNS	16	48	4
12VV1A0506	R41053	DATA WARE HOUSING AND DATA MINING	18	37	4
12VV1A0506	R41054	MOBILE COMPUTING	11	38	4
12VV1A0506	R41058	CYBER LAWS	16	42	4
12VV1A0506	R4105E	UML & DESIGN PATTERNS LAB	20	38	2
12VV1A0506	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	15	40	2
12VV1A0506	R4105G	BIG DATA ANALYTICS (MOOCs)	13	49	4
12VV1A0507	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	65	4
12VV1A0507	R41052	UML & DESIGN PATTERNS	18	61	4
12VV1A0507	R41053	DATA WARE HOUSING AND DATA MINING	19	56	4
12VV1A0507	R41054	MOBILE COMPUTING	18	51	4
12VV1A0507	R41058	CYBER LAWS	20	50	4
12VV1A0507	R4105A	CLOUD COMPUTING	25	47	4
12VV1A0507	R4105E	UML & DESIGN PATTERNS LAB	23	42	2
12VV1A0507	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12VV1A0508	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	64	4
12VV1A0508	R41052	UML & DESIGN PATTERNS	20	47	4
12VV1A0508	R41053	DATA WARE HOUSING AND DATA MINING	21	55	4
12VV1A0508	R41054	MOBILE COMPUTING	15	45	4
12VV1A0508	R41058	CYBER LAWS	17	46	4
12VV1A0508	R4105A	CLOUD COMPUTING	17	42	4
12VV1A0508	R4105E	UML & DESIGN PATTERNS LAB	20	40	2
12VV1A0508	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	15	46	2
12VV1A0509	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	56	4
12VV1A0509	R41052	UML & DESIGN PATTERNS	20	55	4
12VV1A0509	R41053	DATA WARE HOUSING AND DATA MINING	21	54	4
12VV1A0509	R41054	MOBILE COMPUTING	12	57	4
12VV1A0509	R41058	CYBER LAWS	18	48	4
12VV1A0509	R4105A	CLOUD COMPUTING	25	49	4
12VV1A0509	R4105E	UML & DESIGN PATTERNS LAB	23	45	2
12VV1A0509	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	42	2
12VV1A0510	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	38	4
12VV1A0510	R41052	UML & DESIGN PATTERNS	20	45	4
12VV1A0510	R41053	DATA WARE HOUSING AND DATA MINING	10	33	4
12VV1A0510	R41054	MOBILE COMPUTING	14	50	4
12VV1A0510	R41058	CYBER LAWS	17	48	4
12VV1A0510	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0510	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	41	2
12VV1A0510	R4105G	BIG DATA ANALYTICS (MOOCs)	19	53	4
12VV1A0511	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	36	4
12VV1A0511	R41052	UML & DESIGN PATTERNS	16	50	4
12VV1A0511	R41053	DATA WARE HOUSING AND DATA MINING	18	39	4
12VV1A0511	R41054	MOBILE COMPUTING	10	39	4
12VV1A0511	R41058	CYBER LAWS	13	33	4
12VV1A0511	R4105A	CLOUD COMPUTING	21	36	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0511	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0511	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	40	2
12VV1A0512	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	60	4
12VV1A0512	R41052	UML & DESIGN PATTERNS	18	38	4
12VV1A0512	R41053	DATA WARE HOUSING AND DATA MINING	18	54	4
12VV1A0512	R41054	MOBILE COMPUTING	11	65	4
12VV1A0512	R41058	CYBER LAWS	20	51	4
12VV1A0512	R4105A	CLOUD COMPUTING	25	48	4
12VV1A0512	R4105E	UML & DESIGN PATTERNS LAB	20	38	2
12VV1A0512	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	15	40	2
12VV1A0513	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	59	4
12VV1A0513	R41052	UML & DESIGN PATTERNS	21	48	4
12VV1A0513	R41053	DATA WARE HOUSING AND DATA MINING	21	55	4
12VV1A0513	R41054	MOBILE COMPUTING	15	46	4
12VV1A0513	R41058	CYBER LAWS	17	46	4
12VV1A0513	R4105A	CLOUD COMPUTING	25	41	4
12VV1A0513	R4105E	UML & DESIGN PATTERNS LAB	21	40	2
12VV1A0513	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	24	41	2
12VV1A0514	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	27	4
12VV1A0514	R41052	UML & DESIGN PATTERNS	21	31	4
12VV1A0514	R41053	DATA WARE HOUSING AND DATA MINING	14	47	4
12VV1A0514	R41054	MOBILE COMPUTING	14	41	4
12VV1A0514	R41058	CYBER LAWS	18	41	4
12VV1A0514	R4105A	CLOUD COMPUTING	24	38	4
12VV1A0514	R4105E	UML & DESIGN PATTERNS LAB	22	39	2
12VV1A0514	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	40	2
12VV1A0515	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	38	4
12VV1A0515	R41052	UML & DESIGN PATTERNS	22	53	4
12VV1A0515	R41053	DATA WARE HOUSING AND DATA MINING	21	62	4
12VV1A0515	R41054	MOBILE COMPUTING	16	53	4
12VV1A0515	R41058	CYBER LAWS	22	51	4
12VV1A0515	R4105E	UML & DESIGN PATTERNS LAB	24	45	2
12VV1A0515	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	43	2
12VV1A0515	R4105G	BIG DATA ANALYTICS (MOOCs)	21	61	4
12VV1A0516	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	32	4
12VV1A0516	R41052	UML & DESIGN PATTERNS	9	31	4
12VV1A0516	R41053	DATA WARE HOUSING AND DATA MINING	18	33	4
12VV1A0516	R41054	MOBILE COMPUTING	9	41	4
12VV1A0516	R41058	CYBER LAWS	14	27	4
12VV1A0516	R4105A	CLOUD COMPUTING	18	30	4
12VV1A0516	R4105E	UML & DESIGN PATTERNS LAB	21	37	2
12VV1A0516	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	37	2
12VV1A0517	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	44	4
12VV1A0517	R41052	UML & DESIGN PATTERNS	17	48	4
12VV1A0517	R41053	DATA WARE HOUSING AND DATA MINING	17	55	4
12VV1A0517	R41054	MOBILE COMPUTING	12	54	4
12VV1A0517	R41058	CYBER LAWS	15	45	4
12VV1A0517	R4105A	CLOUD COMPUTING	25	53	4
12VV1A0517	R4105E	UML & DESIGN PATTERNS LAB	20	40	2
12VV1A0517	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	44	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0518	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	30	4
12VV1A0518	R41052	UML & DESIGN PATTERNS	19	45	4
12VV1A0518	R41053	DATA WARE HOUSING AND DATA MINING	19	49	4
12VV1A0518	R41054	MOBILE COMPUTING	15	56	4
12VV1A0518	R41058	CYBER LAWS	18	39	4
12VV1A0518	R4105E	UML & DESIGN PATTERNS LAB	22	39	2
12VV1A0518	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	40	2
12VV1A0518	R4105G	BIG DATA ANALYTICS (MOOCs)	19	56	4
12VV1A0519	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	29	4
12VV1A0519	R41052	UML & DESIGN PATTERNS	22	45	4
12VV1A0519	R41053	DATA WARE HOUSING AND DATA MINING	19	53	4
12VV1A0519	R41054	MOBILE COMPUTING	17	55	4
12VV1A0519	R41058	CYBER LAWS	19	49	4
12VV1A0519	R4105A	CLOUD COMPUTING	24	44	4
12VV1A0519	R4105E	UML & DESIGN PATTERNS LAB	23	42	2
12VV1A0519	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	14	42	2
12VV1A0520	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	44	4
12VV1A0520	R41052	UML & DESIGN PATTERNS	20	42	4
12VV1A0520	R41053	DATA WARE HOUSING AND DATA MINING	20	49	4
12VV1A0520	R41054	MOBILE COMPUTING	13	48	4
12VV1A0520	R41058	CYBER LAWS	17	43	4
12VV1A0520	R4105A	CLOUD COMPUTING	24	35	4
12VV1A0520	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0520	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	17	30	2
12VV1A0521	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	57	4
12VV1A0521	R41052	UML & DESIGN PATTERNS	20	55	4
12VV1A0521	R41053	DATA WARE HOUSING AND DATA MINING	16	51	4
12VV1A0521	R41054	MOBILE COMPUTING	12	48	4
12VV1A0521	R41058	CYBER LAWS	19	50	4
12VV1A0521	R4105E	UML & DESIGN PATTERNS LAB	24	42	2
12VV1A0521	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	19	42	2
12VV1A0521	R4105G	BIG DATA ANALYTICS (MOOCs)	21	55	4
12VV1A0522	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	30	4
12VV1A0522	R41052	UML & DESIGN PATTERNS	18	43	4
12VV1A0522	R41053	DATA WARE HOUSING AND DATA MINING	18	55	4
12VV1A0522	R41054	MOBILE COMPUTING	14	55	4
12VV1A0522	R41058	CYBER LAWS	14	52	4
12VV1A0522	R4105A	CLOUD COMPUTING	22	45	4
12VV1A0522	R4105E	UML & DESIGN PATTERNS LAB	20	39	2
12VV1A0522	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	16	37	2
12VV1A0525	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	26	4
12VV1A0525	R41052	UML & DESIGN PATTERNS	17	26	4
12VV1A0525	R41053	DATA WARE HOUSING AND DATA MINING	20	49	4
12VV1A0525	R41054	MOBILE COMPUTING	14	50	4
12VV1A0525	R41058	CYBER LAWS	21	48	4
12VV1A0525	R4105A	CLOUD COMPUTING	23	48	4
12VV1A0525	R4105E	UML & DESIGN PATTERNS LAB	24	42	2
12VV1A0525	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	15	42	2
12VV1A0526	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	7	9	0
12VV1A0526	R41052	UML & DESIGN PATTERNS	15	34	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0526	R41053	DATA WARE HOUSING AND DATA MINING	15	29	4
12VV1A0526	R41054	MOBILE COMPUTING	6	47	4
12VV1A0526	R41058	CYBER LAWS	16	34	4
12VV1A0526	R4105A	CLOUD COMPUTING	22	33	4
12VV1A0526	R4105E	UML & DESIGN PATTERNS LAB	22	39	2
12VV1A0526	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	15	41	2
12VV1A0527	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	28	4
12VV1A0527	R41052	UML & DESIGN PATTERNS	19	28	4
12VV1A0527	R41053	DATA WARE HOUSING AND DATA MINING	18	47	4
12VV1A0527	R41054	MOBILE COMPUTING	13	39	4
12VV1A0527	R41058	CYBER LAWS	14	43	4
12VV1A0527	R4105E	UML & DESIGN PATTERNS LAB	21	36	2
12VV1A0527	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	17	37	2
12VV1A0527	R4105G	BIG DATA ANALYTICS (MOOCs)	21	54	4
12VV1A0528	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	32	4
12VV1A0528	R41052	UML & DESIGN PATTERNS	19	39	4
12VV1A0528	R41053	DATA WARE HOUSING AND DATA MINING	16	42	4
12VV1A0528	R41054	MOBILE COMPUTING	15	37	4
12VV1A0528	R41058	CYBER LAWS	13	42	4
12VV1A0528	R4105E	UML & DESIGN PATTERNS LAB	21	40	2
12VV1A0528	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	19	40	2
12VV1A0528	R4105G	BIG DATA ANALYTICS (MOOCs)	21	46	4
12VV1A0529	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	52	4
12VV1A0529	R41052	UML & DESIGN PATTERNS	17	44	4
12VV1A0529	R41053	DATA WARE HOUSING AND DATA MINING	17	54	4
12VV1A0529	R41054	MOBILE COMPUTING	12	44	4
12VV1A0529	R41058	CYBER LAWS	17	47	4
12VV1A0529	R4105E	UML & DESIGN PATTERNS LAB	21	40	2
12VV1A0529	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	44	2
12VV1A0529	R4105G	BIG DATA ANALYTICS (MOOCs)	18	57	4
12VV1A0530	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	46	4
12VV1A0530	R41052	UML & DESIGN PATTERNS	20	45	4
12VV1A0530	R41053	DATA WARE HOUSING AND DATA MINING	19	54	4
12VV1A0530	R41054	MOBILE COMPUTING	13	50	4
12VV1A0530	R41058	CYBER LAWS	18	48	4
12VV1A0530	R4105A	CLOUD COMPUTING	15	40	4
12VV1A0530	R4105E	UML & DESIGN PATTERNS LAB	22	39	2
12VV1A0530	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	40	2
12VV1A0531	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	9	31	4
12VV1A0531	R41052	UML & DESIGN PATTERNS	14	49	4
12VV1A0531	R41053	DATA WARE HOUSING AND DATA MINING	20	55	4
12VV1A0531	R41054	MOBILE COMPUTING	10	37	4
12VV1A0531	R41058	CYBER LAWS	12	41	4
12VV1A0531	R4105A	CLOUD COMPUTING	25	49	4
12VV1A0531	R4105E	UML & DESIGN PATTERNS LAB	20	39	2
12VV1A0531	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	16	42	2
12VV1A0532	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	32	4
12VV1A0532	R41052	UML & DESIGN PATTERNS	14	35	4
12VV1A0532	R41053	DATA WARE HOUSING AND DATA MINING	14	45	4
12VV1A0532	R41054	MOBILE COMPUTING	11	32	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0532	R41058	CYBER LAWS	18	48	4
12VV1A0532	R4105A	CLOUD COMPUTING	25	35	4
12VV1A0532	R4105E	UML & DESIGN PATTERNS LAB	23	45	2
12VV1A0532	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	24	42	2
12VV1A0533	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	28	4
12VV1A0533	R41052	UML & DESIGN PATTERNS	17	41	4
12VV1A0533	R41053	DATA WARE HOUSING AND DATA MINING	16	46	4
12VV1A0533	R41054	MOBILE COMPUTING	15	47	4
12VV1A0533	R41058	CYBER LAWS	17	41	4
12VV1A0533	R4105A	CLOUD COMPUTING	21	43	4
12VV1A0533	R4105E	UML & DESIGN PATTERNS LAB	20	38	2
12VV1A0533	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A0534	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	10	0
12VV1A0534	R41052	UML & DESIGN PATTERNS	15	26	4
12VV1A0534	R41053	DATA WARE HOUSING AND DATA MINING	18	37	4
12VV1A0534	R41054	MOBILE COMPUTING	11	40	4
12VV1A0534	R41058	CYBER LAWS	11	34	4
12VV1A0534	R4105A	CLOUD COMPUTING	16	47	4
12VV1A0534	R4105E	UML & DESIGN PATTERNS LAB	20	39	2
12VV1A0534	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	42	2
12VV1A0535	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	42	4
12VV1A0535	R41052	UML & DESIGN PATTERNS	18	39	4
12VV1A0535	R41053	DATA WARE HOUSING AND DATA MINING	18	40	4
12VV1A0535	R41054	MOBILE COMPUTING	16	29	4
12VV1A0535	R41058	CYBER LAWS	20	48	4
12VV1A0535	R4105A	CLOUD COMPUTING	21	40	4
12VV1A0535	R4105E	UML & DESIGN PATTERNS LAB	22	38	2
12VV1A0535	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	24	44	2
12VV1A0536	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	36	4
12VV1A0536	R41052	UML & DESIGN PATTERNS	17	38	4
12VV1A0536	R41053	DATA WARE HOUSING AND DATA MINING	21	59	4
12VV1A0536	R41054	MOBILE COMPUTING	14	44	4
12VV1A0536	R41058	CYBER LAWS	19	51	4
12VV1A0536	R4105E	UML & DESIGN PATTERNS LAB	22	39	2
12VV1A0536	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	24	42	2
12VV1A0536	R4105G	BIG DATA ANALYTICS (MOOCs)	18	51	4
12VV1A0537	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	40	4
12VV1A0537	R41052	UML & DESIGN PATTERNS	19	35	4
12VV1A0537	R41053	DATA WARE HOUSING AND DATA MINING	21	55	4
12VV1A0537	R41054	MOBILE COMPUTING	10	39	4
12VV1A0537	R41058	CYBER LAWS	18	56	4
12VV1A0537	R4105A	CLOUD COMPUTING	23	41	4
12VV1A0537	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0537	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	40	2
12VV1A0539	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	9	0
12VV1A0539	R41052	UML & DESIGN PATTERNS	15	28	4
12VV1A0539	R41053	DATA WARE HOUSING AND DATA MINING	10	30	4
12VV1A0539	R41054	MOBILE COMPUTING	8	26	0
12VV1A0539	R41058	CYBER LAWS	19	11	0
12VV1A0539	R4105A	CLOUD COMPUTING	15	31	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0539	R4105E	UML & DESIGN PATTERNS LAB	20	39	2
12VV1A0539	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	40	2
12VV1A0540	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	50	4
12VV1A0540	R41052	UML & DESIGN PATTERNS	19	47	4
12VV1A0540	R41053	DATA WARE HOUSING AND DATA MINING	23	49	4
12VV1A0540	R41054	MOBILE COMPUTING	15	47	4
12VV1A0540	R41058	CYBER LAWS	21	42	4
12VV1A0540	R4105A	CLOUD COMPUTING	21	40	4
12VV1A0540	R4105E	UML & DESIGN PATTERNS LAB	22	42	2
12VV1A0540	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	38	2
12VV1A0541	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	41	4
12VV1A0541	R41052	UML & DESIGN PATTERNS	18	40	4
12VV1A0541	R41053	DATA WARE HOUSING AND DATA MINING	20	45	4
12VV1A0541	R41054	MOBILE COMPUTING	12	43	4
12VV1A0541	R41058	CYBER LAWS	20	40	4
12VV1A0541	R4105A	CLOUD COMPUTING	23	39	4
12VV1A0541	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0541	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	17	44	2
12VV1A0542	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	45	4
12VV1A0542	R41052	UML & DESIGN PATTERNS	19	49	4
12VV1A0542	R41053	DATA WARE HOUSING AND DATA MINING	19	49	4
12VV1A0542	R41054	MOBILE COMPUTING	13	57	4
12VV1A0542	R41058	CYBER LAWS	21	37	4
12VV1A0542	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0542	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12VV1A0542	R4105G	BIG DATA ANALYTICS (MOOCs)	16	49	4
12VV1A0543	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	34	4
12VV1A0543	R41052	UML & DESIGN PATTERNS	20	40	4
12VV1A0543	R41053	DATA WARE HOUSING AND DATA MINING	23	55	4
12VV1A0543	R41054	MOBILE COMPUTING	16	53	4
12VV1A0543	R41058	CYBER LAWS	21	48	4
12VV1A0543	R4105A	CLOUD COMPUTING	20	53	4
12VV1A0543	R4105E	UML & DESIGN PATTERNS LAB	22	38	2
12VV1A0543	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	38	2
12VV1A0544	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	34	4
12VV1A0544	R41052	UML & DESIGN PATTERNS	15	42	4
12VV1A0544	R41053	DATA WARE HOUSING AND DATA MINING	22	51	4
12VV1A0544	R41054	MOBILE COMPUTING	16	43	4
12VV1A0544	R41058	CYBER LAWS	20	44	4
12VV1A0544	R4105A	CLOUD COMPUTING	19	52	4
12VV1A0544	R4105E	UML & DESIGN PATTERNS LAB	22	38	2
12VV1A0544	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	15	28	2
12VV1A0545	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	10	36	4
12VV1A0545	R41052	UML & DESIGN PATTERNS	18	46	4
12VV1A0545	R41053	DATA WARE HOUSING AND DATA MINING	16	44	4
12VV1A0545	R41054	MOBILE COMPUTING	17	57	4
12VV1A0545	R41058	CYBER LAWS	19	47	4
12VV1A0545	R4105A	CLOUD COMPUTING	25	48	4
12VV1A0545	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0545	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A0546	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	14	0
12VV1A0546	R41052	UML & DESIGN PATTERNS	16	35	4
12VV1A0546	R41053	DATA WARE HOUSING AND DATA MINING	11	32	4
12VV1A0546	R41054	MOBILE COMPUTING	8	48	4
12VV1A0546	R41058	CYBER LAWS	22	45	4
12VV1A0546	R4105A	CLOUD COMPUTING	20	37	4
12VV1A0546	R4105E	UML & DESIGN PATTERNS LAB	22	38	2
12VV1A0546	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	15	43	2
12VV1A0547	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	45	4
12VV1A0547	R41052	UML & DESIGN PATTERNS	18	46	4
12VV1A0547	R41053	DATA WARE HOUSING AND DATA MINING	18	43	4
12VV1A0547	R41054	MOBILE COMPUTING	13	47	4
12VV1A0547	R41058	CYBER LAWS	19	48	4
12VV1A0547	R4105A	CLOUD COMPUTING	17	46	4
12VV1A0547	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0547	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	16	34	2
12VV1A0548	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	28	4
12VV1A0548	R41052	UML & DESIGN PATTERNS	19	33	4
12VV1A0548	R41053	DATA WARE HOUSING AND DATA MINING	20	36	4
12VV1A0548	R41054	MOBILE COMPUTING	6	47	4
12VV1A0548	R41058	CYBER LAWS	16	40	4
12VV1A0548	R4105E	UML & DESIGN PATTERNS LAB	22	42	2
12VV1A0548	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	24	42	2
12VV1A0548	R4105G	BIG DATA ANALYTICS (MOOCs)	21	54	4
12VV1A0549	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	26	4
12VV1A0549	R41052	UML & DESIGN PATTERNS	17	41	4
12VV1A0549	R41053	DATA WARE HOUSING AND DATA MINING	19	51	4
12VV1A0549	R41054	MOBILE COMPUTING	12	51	4
12VV1A0549	R41058	CYBER LAWS	20	44	4
12VV1A0549	R4105E	UML & DESIGN PATTERNS LAB	22	39	2
12VV1A0549	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	42	2
12VV1A0549	R4105G	BIG DATA ANALYTICS (MOOCs)	15	53	4
12VV1A0550	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	43	4
12VV1A0550	R41052	UML & DESIGN PATTERNS	18	57	4
12VV1A0550	R41053	DATA WARE HOUSING AND DATA MINING	24	51	4
12VV1A0550	R41054	MOBILE COMPUTING	15	60	4
12VV1A0550	R41058	CYBER LAWS	22	38	4
12VV1A0550	R4105A	CLOUD COMPUTING	19	52	4
12VV1A0550	R4105E	UML & DESIGN PATTERNS LAB	21	40	2
12VV1A0550	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	44	2
12VV1A0551	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	41	4
12VV1A0551	R41052	UML & DESIGN PATTERNS	20	45	4
12VV1A0551	R41053	DATA WARE HOUSING AND DATA MINING	21	45	4
12VV1A0551	R41054	MOBILE COMPUTING	15	51	4
12VV1A0551	R41058	CYBER LAWS	20	42	4
12VV1A0551	R4105A	CLOUD COMPUTING	20	53	4
12VV1A0551	R4105E	UML & DESIGN PATTERNS LAB	21	38	2
12VV1A0551	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	38	2
12VV1A0552	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	57	4
12VV1A0552	R41052	UML & DESIGN PATTERNS	20	49	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0552	R41053	DATA WARE HOUSING AND DATA MINING	25	49	4
12VV1A0552	R41054	MOBILE COMPUTING	19	61	4
12VV1A0552	R41058	CYBER LAWS	21	47	4
12VV1A0552	R4105A	CLOUD COMPUTING	21	55	4
12VV1A0552	R4105E	UML & DESIGN PATTERNS LAB	22	40	2
12VV1A0552	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	43	2
12VV1A0553	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	49	4
12VV1A0553	R41052	UML & DESIGN PATTERNS	19	55	4
12VV1A0553	R41053	DATA WARE HOUSING AND DATA MINING	25	55	4
12VV1A0553	R41054	MOBILE COMPUTING	16	55	4
12VV1A0553	R41058	CYBER LAWS	20	49	4
12VV1A0553	R4105A	CLOUD COMPUTING	24	48	4
12VV1A0553	R4105E	UML & DESIGN PATTERNS LAB	20	38	2
12VV1A0553	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	23	44	2
12VV1A0554	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	48	4
12VV1A0554	R41052	UML & DESIGN PATTERNS	20	46	4
12VV1A0554	R41053	DATA WARE HOUSING AND DATA MINING	22	56	4
12VV1A0554	R41054	MOBILE COMPUTING	15	61	4
12VV1A0554	R41058	CYBER LAWS	20	49	4
12VV1A0554	R4105A	CLOUD COMPUTING	22	48	4
12VV1A0554	R4105E	UML & DESIGN PATTERNS LAB	20	40	2
12VV1A0554	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	21	38	2
12VV1A0555	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	30	4
12VV1A0555	R41052	UML & DESIGN PATTERNS	18	49	4
12VV1A0555	R41053	DATA WARE HOUSING AND DATA MINING	20	52	4
12VV1A0555	R41054	MOBILE COMPUTING	15	50	4
12VV1A0555	R41058	CYBER LAWS	21	44	4
12VV1A0555	R4105A	CLOUD COMPUTING	22	41	4
12VV1A0555	R4105E	UML & DESIGN PATTERNS LAB	22	42	2
12VV1A0555	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	17	42	2
12VV1A0556	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	63	4
12VV1A0556	R41052	UML & DESIGN PATTERNS	20	48	4
12VV1A0556	R41053	DATA WARE HOUSING AND DATA MINING	24	54	4
12VV1A0556	R41054	MOBILE COMPUTING	9	61	4
12VV1A0556	R41058	CYBER LAWS	21	48	4
12VV1A0556	R4105A	CLOUD COMPUTING	25	48	4
12VV1A0556	R4105E	UML & DESIGN PATTERNS LAB	22	44	2
12VV1A0556	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	14	44	2
12VV1A0557	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	63	4
12VV1A0557	R41052	UML & DESIGN PATTERNS	21	60	4
12VV1A0557	R41053	DATA WARE HOUSING AND DATA MINING	18	55	4
12VV1A0557	R41054	MOBILE COMPUTING	11	55	4
12VV1A0557	R41058	CYBER LAWS	19	42	4
12VV1A0557	R4105A	CLOUD COMPUTING	22	54	4
12VV1A0557	R4105E	UML & DESIGN PATTERNS LAB	23	43	2
12VV1A0557	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	16	42	2
12VV1A0558	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	60	4
12VV1A0558	R41052	UML & DESIGN PATTERNS	21	50	4
12VV1A0558	R41053	DATA WARE HOUSING AND DATA MINING	24	54	4
12VV1A0558	R41054	MOBILE COMPUTING	17	62	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A0558	R41058	CYBER LAWS	22	51	4
12VV1A0558	R4105A	CLOUD COMPUTING	25	54	4
12VV1A0558	R4105E	UML & DESIGN PATTERNS LAB	24	48	2
12VV1A0558	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	24	44	2
12VV1A0559	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	58	4
12VV1A0559	R41052	UML & DESIGN PATTERNS	17	50	4
12VV1A0559	R41053	DATA WARE HOUSING AND DATA MINING	13	52	4
12VV1A0559	R41054	MOBILE COMPUTING	13	44	4
12VV1A0559	R41058	CYBER LAWS	18	45	4
12VV1A0559	R4105A	CLOUD COMPUTING	17	42	4
12VV1A0559	R4105E	UML & DESIGN PATTERNS LAB	21	39	2
12VV1A0559	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	40	2
12VV1A0560	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	48	4
12VV1A0560	R41052	UML & DESIGN PATTERNS	19	47	4
12VV1A0560	R41053	DATA WARE HOUSING AND DATA MINING	21	52	4
12VV1A0560	R41054	MOBILE COMPUTING	17	55	4
12VV1A0560	R41058	CYBER LAWS	18	45	4
12VV1A0560	R4105A	CLOUD COMPUTING	21	36	4
12VV1A0560	R4105E	UML & DESIGN PATTERNS LAB	23	45	2
12VV1A0560	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	45	2
12VV1A1201	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	51	4
12VV1A1201	R41053	DATA WARE HOUSING AND DATA MINING	25	52	4
12VV1A1201	R41054	MOBILE COMPUTING	22	47	4
12VV1A1201	R41058	CYBER LAWS	21	36	4
12VV1A1201	R41121	DESIGN PATTERNS	17	48	4
12VV1A1201	R41129	ARTIFICIAL INTELLIGENCE	18	55	4
12VV1A1201	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1201	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	42	2
12VV1A1202	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	50	4
12VV1A1202	R41053	DATA WARE HOUSING AND DATA MINING	25	52	4
12VV1A1202	R41054	MOBILE COMPUTING	22	50	4
12VV1A1202	R41058	CYBER LAWS	24	40	4
12VV1A1202	R41121	DESIGN PATTERNS	22	57	4
12VV1A1202	R41129	ARTIFICIAL INTELLIGENCE	22	50	4
12VV1A1202	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1202	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1203	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	38	4
12VV1A1203	R41053	DATA WARE HOUSING AND DATA MINING	24	37	4
12VV1A1203	R41054	MOBILE COMPUTING	13	30	4
12VV1A1203	R41058	CYBER LAWS	20	34	4
12VV1A1203	R41121	DESIGN PATTERNS	16	30	4
12VV1A1203	R41129	ARTIFICIAL INTELLIGENCE	10	45	4
12VV1A1203	R4112B	UML & DESIGN PATTERNS LAB	20	42	2
12VV1A1203	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1204	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	27	4
12VV1A1204	R41053	DATA WARE HOUSING AND DATA MINING	23	28	4
12VV1A1204	R41054	MOBILE COMPUTING	19	28	4
12VV1A1204	R41058	CYBER LAWS	17	33	4
12VV1A1204	R41121	DESIGN PATTERNS	13	40	4
12VV1A1204	R41129	ARTIFICIAL INTELLIGENCE	11	41	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A1204	R4112B	UML & DESIGN PATTERNS LAB	20	42	2
12VV1A1204	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1205	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	52	4
12VV1A1205	R41053	DATA WARE HOUSING AND DATA MINING	24	54	4
12VV1A1205	R41054	MOBILE COMPUTING	22	51	4
12VV1A1205	R41058	CYBER LAWS	24	39	4
12VV1A1205	R41121	DESIGN PATTERNS	15	56	4
12VV1A1205	R41129	ARTIFICIAL INTELLIGENCE	18	49	4
12VV1A1205	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1205	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1206	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	47	4
12VV1A1206	R41053	DATA WARE HOUSING AND DATA MINING	24	47	4
12VV1A1206	R41054	MOBILE COMPUTING	20	58	4
12VV1A1206	R41058	CYBER LAWS	23	42	4
12VV1A1206	R41121	DESIGN PATTERNS	19	46	4
12VV1A1206	R41129	ARTIFICIAL INTELLIGENCE	15	50	4
12VV1A1206	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1206	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1207	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	40	4
12VV1A1207	R41053	DATA WARE HOUSING AND DATA MINING	23	33	4
12VV1A1207	R41054	MOBILE COMPUTING	18	32	4
12VV1A1207	R41058	CYBER LAWS	17	34	4
12VV1A1207	R41121	DESIGN PATTERNS	15	52	4
12VV1A1207	R41129	ARTIFICIAL INTELLIGENCE	8	45	4
12VV1A1207	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1207	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	43	2
12VV1A1208	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	50	4
12VV1A1208	R41053	DATA WARE HOUSING AND DATA MINING	24	41	4
12VV1A1208	R41054	MOBILE COMPUTING	24	47	4
12VV1A1208	R41058	CYBER LAWS	22	44	4
12VV1A1208	R41121	DESIGN PATTERNS	18	54	4
12VV1A1208	R41129	ARTIFICIAL INTELLIGENCE	15	44	4
12VV1A1208	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1208	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	43	2
12VV1A1209	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	52	4
12VV1A1209	R41053	DATA WARE HOUSING AND DATA MINING	24	55	4
12VV1A1209	R41054	MOBILE COMPUTING	21	45	4
12VV1A1209	R41058	CYBER LAWS	20	47	4
12VV1A1209	R41121	DESIGN PATTERNS	15	58	4
12VV1A1209	R41129	ARTIFICIAL INTELLIGENCE	17	51	4
12VV1A1209	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1209	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	43	2
12VV1A1210	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	40	4
12VV1A1210	R41053	DATA WARE HOUSING AND DATA MINING	25	53	4
12VV1A1210	R41054	MOBILE COMPUTING	21	44	4
12VV1A1210	R41058	CYBER LAWS	22	43	4
12VV1A1210	R41121	DESIGN PATTERNS	20	61	4
12VV1A1210	R41129	ARTIFICIAL INTELLIGENCE	17	48	4
12VV1A1210	R4112B	UML & DESIGN PATTERNS LAB	25	49	2
12VV1A1210	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	46	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A1211	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	54	4
12VV1A1211	R41053	DATA WARE HOUSING AND DATA MINING	25	56	4
12VV1A1211	R41054	MOBILE COMPUTING	21	54	4
12VV1A1211	R41058	CYBER LAWS	23	44	4
12VV1A1211	R41121	DESIGN PATTERNS	16	61	4
12VV1A1211	R41129	ARTIFICIAL INTELLIGENCE	15	55	4
12VV1A1211	R4112B	UML & DESIGN PATTERNS LAB	25	49	2
12VV1A1211	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	46	2
12VV1A1212	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	45	4
12VV1A1212	R41053	DATA WARE HOUSING AND DATA MINING	24	55	4
12VV1A1212	R41054	MOBILE COMPUTING	21	53	4
12VV1A1212	R41058	CYBER LAWS	22	44	4
12VV1A1212	R41121	DESIGN PATTERNS	19	55	4
12VV1A1212	R41129	ARTIFICIAL INTELLIGENCE	13	54	4
12VV1A1212	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1212	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	46	2
12VV1A1213	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	40	4
12VV1A1213	R41053	DATA WARE HOUSING AND DATA MINING	25	31	4
12VV1A1213	R41054	MOBILE COMPUTING	19	38	4
12VV1A1213	R41058	CYBER LAWS	22	38	4
12VV1A1213	R41121	DESIGN PATTERNS	16	34	4
12VV1A1213	R41129	ARTIFICIAL INTELLIGENCE	14	44	4
12VV1A1213	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1213	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	44	2
12VV1A1214	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	50	4
12VV1A1214	R41053	DATA WARE HOUSING AND DATA MINING	24	50	4
12VV1A1214	R41054	MOBILE COMPUTING	22	42	4
12VV1A1214	R41058	CYBER LAWS	23	43	4
12VV1A1214	R41121	DESIGN PATTERNS	20	65	4
12VV1A1214	R41129	ARTIFICIAL INTELLIGENCE	16	52	4
12VV1A1214	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1214	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	43	2
12VV1A1215	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	53	4
12VV1A1215	R41053	DATA WARE HOUSING AND DATA MINING	24	54	4
12VV1A1215	R41054	MOBILE COMPUTING	21	53	4
12VV1A1215	R41058	CYBER LAWS	25	43	4
12VV1A1215	R41121	DESIGN PATTERNS	18	56	4
12VV1A1215	R41129	ARTIFICIAL INTELLIGENCE	16	52	4
12VV1A1215	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1215	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	43	2
12VV1A1216	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	52	4
12VV1A1216	R41053	DATA WARE HOUSING AND DATA MINING	24	42	4
12VV1A1216	R41054	MOBILE COMPUTING	19	29	4
12VV1A1216	R41058	CYBER LAWS	0	39	0
12VV1A1216	R41121	DESIGN PATTERNS	17	52	4
12VV1A1216	R41129	ARTIFICIAL INTELLIGENCE	6	46	4
12VV1A1216	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1216	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1217	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	50	4
12VV1A1217	R41053	DATA WARE HOUSING AND DATA MINING	24	40	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A1217	R41054	MOBILE COMPUTING	21	40	4
12VV1A1217	R41058	CYBER LAWS	22	46	4
12VV1A1217	R41121	DESIGN PATTERNS	17	59	4
12VV1A1217	R41129	ARTIFICIAL INTELLIGENCE	13	46	4
12VV1A1217	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1217	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	44	2
12VV1A1218	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	28	4
12VV1A1218	R41053	DATA WARE HOUSING AND DATA MINING	23	37	4
12VV1A1218	R41054	MOBILE COMPUTING	16	32	4
12VV1A1218	R41058	CYBER LAWS	21	29	4
12VV1A1218	R41121	DESIGN PATTERNS	15	39	4
12VV1A1218	R41129	ARTIFICIAL INTELLIGENCE	13	43	4
12VV1A1218	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1218	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1219	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	46	4
12VV1A1219	R41053	DATA WARE HOUSING AND DATA MINING	25	46	4
12VV1A1219	R41054	MOBILE COMPUTING	19	41	4
12VV1A1219	R41058	CYBER LAWS	24	37	4
12VV1A1219	R41121	DESIGN PATTERNS	17	51	4
12VV1A1219	R41129	ARTIFICIAL INTELLIGENCE	17	46	4
12VV1A1219	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1219	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	46	2
12VV1A1220	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	44	4
12VV1A1220	R41053	DATA WARE HOUSING AND DATA MINING	24	54	4
12VV1A1220	R41054	MOBILE COMPUTING	20	37	4
12VV1A1220	R41058	CYBER LAWS	23	44	4
12VV1A1220	R41121	DESIGN PATTERNS	13	56	4
12VV1A1220	R41129	ARTIFICIAL INTELLIGENCE	18	43	4
12VV1A1220	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1220	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	46	2
12VV1A1221	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	39	4
12VV1A1221	R41053	DATA WARE HOUSING AND DATA MINING	24	50	4
12VV1A1221	R41054	MOBILE COMPUTING	21	43	4
12VV1A1221	R41058	CYBER LAWS	20	42	4
12VV1A1221	R41121	DESIGN PATTERNS	16	51	4
12VV1A1221	R41129	ARTIFICIAL INTELLIGENCE	12	49	4
12VV1A1221	R4112B	UML & DESIGN PATTERNS LAB	20	42	2
12VV1A1221	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	46	2
12VV1A1222	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	31	4
12VV1A1222	R41053	DATA WARE HOUSING AND DATA MINING	20	42	4
12VV1A1222	R41054	MOBILE COMPUTING	17	26	4
12VV1A1222	R41058	CYBER LAWS	24	35	4
12VV1A1222	R41121	DESIGN PATTERNS	12	38	4
12VV1A1222	R41129	ARTIFICIAL INTELLIGENCE	6	47	4
12VV1A1222	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1222	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1223	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	52	4
12VV1A1223	R41053	DATA WARE HOUSING AND DATA MINING	25	45	4
12VV1A1223	R41054	MOBILE COMPUTING	21	41	4
12VV1A1223	R41058	CYBER LAWS	23	43	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A1223	R41121	DESIGN PATTERNS	15	51	4
12VV1A1223	R41129	ARTIFICIAL INTELLIGENCE	16	48	4
12VV1A1223	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1223	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	43	2
12VV1A1224	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	46	4
12VV1A1224	R41053	DATA WARE HOUSING AND DATA MINING	25	43	4
12VV1A1224	R41054	MOBILE COMPUTING	22	44	4
12VV1A1224	R41058	CYBER LAWS	22	44	4
12VV1A1224	R41121	DESIGN PATTERNS	14	57	4
12VV1A1224	R41129	ARTIFICIAL INTELLIGENCE	16	43	4
12VV1A1224	R4112B	UML & DESIGN PATTERNS LAB	19	39	2
12VV1A1224	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	43	2
12VV1A1225	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	52	4
12VV1A1225	R41053	DATA WARE HOUSING AND DATA MINING	24	55	4
12VV1A1225	R41054	MOBILE COMPUTING	18	53	4
12VV1A1225	R41058	CYBER LAWS	24	45	4
12VV1A1225	R41121	DESIGN PATTERNS	16	54	4
12VV1A1225	R41129	ARTIFICIAL INTELLIGENCE	14	50	4
12VV1A1225	R4112B	UML & DESIGN PATTERNS LAB	25	49	2
12VV1A1225	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1226	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	53	4
12VV1A1226	R41053	DATA WARE HOUSING AND DATA MINING	23	55	4
12VV1A1226	R41054	MOBILE COMPUTING	23	44	4
12VV1A1226	R41058	CYBER LAWS	23	41	4
12VV1A1226	R41121	DESIGN PATTERNS	16	46	4
12VV1A1226	R41129	ARTIFICIAL INTELLIGENCE	18	54	4
12VV1A1226	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1226	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1227	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	53	4
12VV1A1227	R41053	DATA WARE HOUSING AND DATA MINING	25	57	4
12VV1A1227	R41054	MOBILE COMPUTING	21	49	4
12VV1A1227	R41058	CYBER LAWS	24	39	4
12VV1A1227	R41121	DESIGN PATTERNS	17	58	4
12VV1A1227	R41129	ARTIFICIAL INTELLIGENCE	15	53	4
12VV1A1227	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1227	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1228	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	51	4
12VV1A1228	R41053	DATA WARE HOUSING AND DATA MINING	20	48	4
12VV1A1228	R41054	MOBILE COMPUTING	17	54	4
12VV1A1228	R41058	CYBER LAWS	24	30	4
12VV1A1228	R41121	DESIGN PATTERNS	21	50	4
12VV1A1228	R41129	ARTIFICIAL INTELLIGENCE	8	45	4
12VV1A1228	R4112B	UML & DESIGN PATTERNS LAB	22	44	2
12VV1A1228	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	42	2
12VV1A1229	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	54	4
12VV1A1229	R41053	DATA WARE HOUSING AND DATA MINING	25	59	4
12VV1A1229	R41054	MOBILE COMPUTING	21	51	4
12VV1A1229	R41058	CYBER LAWS	25	42	4
12VV1A1229	R41121	DESIGN PATTERNS	19	58	4
12VV1A1229	R41129	ARTIFICIAL INTELLIGENCE	17	56	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A1229	R4112B	UML & DESIGN PATTERNS LAB	19	39	2
12VV1A1229	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	42	2
12VV1A1230	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	37	4
12VV1A1230	R41053	DATA WARE HOUSING AND DATA MINING	25	42	4
12VV1A1230	R41054	MOBILE COMPUTING	20	53	4
12VV1A1230	R41058	CYBER LAWS	23	33	4
12VV1A1230	R41121	DESIGN PATTERNS	21	52	4
12VV1A1230	R41129	ARTIFICIAL INTELLIGENCE	14	53	4
12VV1A1230	R4112B	UML & DESIGN PATTERNS LAB	20	42	2
12VV1A1230	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	42	2
12VV1A1231	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	46	4
12VV1A1231	R41053	DATA WARE HOUSING AND DATA MINING	24	26	4
12VV1A1231	R41054	MOBILE COMPUTING	22	28	4
12VV1A1231	R41058	CYBER LAWS	24	31	4
12VV1A1231	R41121	DESIGN PATTERNS	17	58	4
12VV1A1231	R41129	ARTIFICIAL INTELLIGENCE	12	54	4
12VV1A1231	R4112B	UML & DESIGN PATTERNS LAB	19	39	2
12VV1A1231	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1232	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	34	4
12VV1A1232	R41053	DATA WARE HOUSING AND DATA MINING	20	26	4
12VV1A1232	R41054	MOBILE COMPUTING	19	28	4
12VV1A1232	R41058	CYBER LAWS	24	26	4
12VV1A1232	R41121	DESIGN PATTERNS	16	39	4
12VV1A1232	R41129	ARTIFICIAL INTELLIGENCE	14	41	4
12VV1A1232	R4112B	UML & DESIGN PATTERNS LAB	19	39	2
12VV1A1232	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1233	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	26	4
12VV1A1233	R41053	DATA WARE HOUSING AND DATA MINING	20	40	4
12VV1A1233	R41054	MOBILE COMPUTING	18	31	4
12VV1A1233	R41058	CYBER LAWS	23	26	4
12VV1A1233	R41121	DESIGN PATTERNS	15	44	4
12VV1A1233	R41129	ARTIFICIAL INTELLIGENCE	12	48	4
12VV1A1233	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1233	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1234	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	47	4
12VV1A1234	R41053	DATA WARE HOUSING AND DATA MINING	25	52	4
12VV1A1234	R41054	MOBILE COMPUTING	21	53	4
12VV1A1234	R41058	CYBER LAWS	23	45	4
12VV1A1234	R41121	DESIGN PATTERNS	20	49	4
12VV1A1234	R41129	ARTIFICIAL INTELLIGENCE	15	49	4
12VV1A1234	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1234	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	44	2
12VV1A1235	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	42	4
12VV1A1235	R41053	DATA WARE HOUSING AND DATA MINING	24	44	4
12VV1A1235	R41054	MOBILE COMPUTING	17	36	4
12VV1A1235	R41058	CYBER LAWS	23	36	4
12VV1A1235	R41121	DESIGN PATTERNS	19	49	4
12VV1A1235	R41129	ARTIFICIAL INTELLIGENCE	15	54	4
12VV1A1235	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1235	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A1236	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	47	4
12VV1A1236	R41053	DATA WARE HOUSING AND DATA MINING	24	35	4
12VV1A1236	R41054	MOBILE COMPUTING	21	33	4
12VV1A1236	R41058	CYBER LAWS	22	34	4
12VV1A1236	R41121	DESIGN PATTERNS	18	49	4
12VV1A1236	R41129	ARTIFICIAL INTELLIGENCE	9	50	4
12VV1A1236	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1236	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1237	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	50	4
12VV1A1237	R41053	DATA WARE HOUSING AND DATA MINING	25	52	4
12VV1A1237	R41054	MOBILE COMPUTING	22	49	4
12VV1A1237	R41058	CYBER LAWS	25	35	4
12VV1A1237	R41121	DESIGN PATTERNS	19	58	4
12VV1A1237	R41129	ARTIFICIAL INTELLIGENCE	20	54	4
12VV1A1237	R4112B	UML & DESIGN PATTERNS LAB	21	46	2
12VV1A1237	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1238	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	56	4
12VV1A1238	R41053	DATA WARE HOUSING AND DATA MINING	24	51	4
12VV1A1238	R41054	MOBILE COMPUTING	22	44	4
12VV1A1238	R41058	CYBER LAWS	24	44	4
12VV1A1238	R41121	DESIGN PATTERNS	20	57	4
12VV1A1238	R41129	ARTIFICIAL INTELLIGENCE	12	58	4
12VV1A1238	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1238	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	43	2
12VV1A1239	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	48	4
12VV1A1239	R41053	DATA WARE HOUSING AND DATA MINING	25	49	4
12VV1A1239	R41054	MOBILE COMPUTING	21	54	4
12VV1A1239	R41058	CYBER LAWS	25	46	4
12VV1A1239	R41121	DESIGN PATTERNS	20	56	4
12VV1A1239	R41129	ARTIFICIAL INTELLIGENCE	16	61	4
12VV1A1239	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1239	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	43	2
12VV1A1240	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	44	4
12VV1A1240	R41053	DATA WARE HOUSING AND DATA MINING	24	27	4
12VV1A1240	R41054	MOBILE COMPUTING	18	46	4
12VV1A1240	R41058	CYBER LAWS	24	37	4
12VV1A1240	R41121	DESIGN PATTERNS	14	41	4
12VV1A1240	R41129	ARTIFICIAL INTELLIGENCE	15	41	4
12VV1A1240	R4112B	UML & DESIGN PATTERNS LAB	19	39	2
12VV1A1240	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	42	2
12VV1A1241	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	45	4
12VV1A1241	R41053	DATA WARE HOUSING AND DATA MINING	25	53	4
12VV1A1241	R41054	MOBILE COMPUTING	21	46	4
12VV1A1241	R41058	CYBER LAWS	23	39	4
12VV1A1241	R41121	DESIGN PATTERNS	19	53	4
12VV1A1241	R41129	ARTIFICIAL INTELLIGENCE	18	43	4
12VV1A1241	R4112B	UML & DESIGN PATTERNS LAB	25	49	2
12VV1A1241	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12VV1A1242	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	53	4
12VV1A1242	R41053	DATA WARE HOUSING AND DATA MINING	25	51	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A1242	R41054	MOBILE COMPUTING	23	51	4
12VV1A1242	R41058	CYBER LAWS	24	40	4
12VV1A1242	R41121	DESIGN PATTERNS	19	58	4
12VV1A1242	R41129	ARTIFICIAL INTELLIGENCE	15	50	4
12VV1A1242	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1242	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	42	2
12VV1A1243	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	50	4
12VV1A1243	R41053	DATA WARE HOUSING AND DATA MINING	24	52	4
12VV1A1243	R41054	MOBILE COMPUTING	23	52	4
12VV1A1243	R41058	CYBER LAWS	24	45	4
12VV1A1243	R41121	DESIGN PATTERNS	20	52	4
12VV1A1243	R41129	ARTIFICIAL INTELLIGENCE	14	57	4
12VV1A1243	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1243	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12VV1A1244	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	53	4
12VV1A1244	R41053	DATA WARE HOUSING AND DATA MINING	25	45	4
12VV1A1244	R41054	MOBILE COMPUTING	17	58	4
12VV1A1244	R41058	CYBER LAWS	22	43	4
12VV1A1244	R41121	DESIGN PATTERNS	19	58	4
12VV1A1244	R41129	ARTIFICIAL INTELLIGENCE	16	51	4
12VV1A1244	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1244	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	43	2
12VV1A1245	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	46	4
12VV1A1245	R41053	DATA WARE HOUSING AND DATA MINING	24	54	4
12VV1A1245	R41054	MOBILE COMPUTING	22	53	4
12VV1A1245	R41058	CYBER LAWS	25	46	4
12VV1A1245	R41121	DESIGN PATTERNS	19	60	4
12VV1A1245	R41129	ARTIFICIAL INTELLIGENCE	19	50	4
12VV1A1245	R4112B	UML & DESIGN PATTERNS LAB	22	44	2
12VV1A1245	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	43	2
12VV1A1246	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	48	4
12VV1A1246	R41053	DATA WARE HOUSING AND DATA MINING	23	32	4
12VV1A1246	R41054	MOBILE COMPUTING	20	40	4
12VV1A1246	R41058	CYBER LAWS	23	38	4
12VV1A1246	R41121	DESIGN PATTERNS	13	48	4
12VV1A1246	R41129	ARTIFICIAL INTELLIGENCE	15	48	4
12VV1A1246	R4112B	UML & DESIGN PATTERNS LAB	21	42	2
12VV1A1246	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1247	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	54	4
12VV1A1247	R41053	DATA WARE HOUSING AND DATA MINING	25	56	4
12VV1A1247	R41054	MOBILE COMPUTING	22	46	4
12VV1A1247	R41058	CYBER LAWS	25	44	4
12VV1A1247	R41121	DESIGN PATTERNS	20	60	4
12VV1A1247	R41129	ARTIFICIAL INTELLIGENCE	20	53	4
12VV1A1247	R4112B	UML & DESIGN PATTERNS LAB	25	49	2
12VV1A1247	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12VV1A1248	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	48	4
12VV1A1248	R41053	DATA WARE HOUSING AND DATA MINING	25	53	4
12VV1A1248	R41054	MOBILE COMPUTING	20	50	4
12VV1A1248	R41058	CYBER LAWS	25	43	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A1248	R41121	DESIGN PATTERNS	21	61	4
12VV1A1248	R41129	ARTIFICIAL INTELLIGENCE	18	51	4
12VV1A1248	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1248	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	21	43	2
12VV1A1249	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	54	4
12VV1A1249	R41053	DATA WARE HOUSING AND DATA MINING	25	45	4
12VV1A1249	R41054	MOBILE COMPUTING	20	50	4
12VV1A1249	R41058	CYBER LAWS	19	42	4
12VV1A1249	R41121	DESIGN PATTERNS	18	52	4
12VV1A1249	R41129	ARTIFICIAL INTELLIGENCE	10	49	4
12VV1A1249	R4112B	UML & DESIGN PATTERNS LAB	20	42	2
12VV1A1249	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1250	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	50	4
12VV1A1250	R41053	DATA WARE HOUSING AND DATA MINING	23	47	4
12VV1A1250	R41054	MOBILE COMPUTING	19	45	4
12VV1A1250	R41058	CYBER LAWS	24	38	4
12VV1A1250	R41121	DESIGN PATTERNS	19	55	4
12VV1A1250	R41129	ARTIFICIAL INTELLIGENCE	18	48	4
12VV1A1250	R4112B	UML & DESIGN PATTERNS LAB	25	49	2
12VV1A1250	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	22	44	2
12VV1A1251	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	51	4
12VV1A1251	R41053	DATA WARE HOUSING AND DATA MINING	25	43	4
12VV1A1251	R41054	MOBILE COMPUTING	19	41	4
12VV1A1251	R41058	CYBER LAWS	23	39	4
12VV1A1251	R41121	DESIGN PATTERNS	22	58	4
12VV1A1251	R41129	ARTIFICIAL INTELLIGENCE	13	50	4
12VV1A1251	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1251	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	46	2
12VV1A1252	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	29	4
12VV1A1252	R41053	DATA WARE HOUSING AND DATA MINING	20	17	0
12VV1A1252	R41054	MOBILE COMPUTING	16	26	4
12VV1A1252	R41058	CYBER LAWS	22	27	4
12VV1A1252	R41121	DESIGN PATTERNS	16	33	4
12VV1A1252	R41129	ARTIFICIAL INTELLIGENCE	6	44	4
12VV1A1252	R4112B	UML & DESIGN PATTERNS LAB	20	42	2
12VV1A1252	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1253	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	56	4
12VV1A1253	R41053	DATA WARE HOUSING AND DATA MINING	24	49	4
12VV1A1253	R41054	MOBILE COMPUTING	21	42	4
12VV1A1253	R41058	CYBER LAWS	24	45	4
12VV1A1253	R41121	DESIGN PATTERNS	22	60	4
12VV1A1253	R41129	ARTIFICIAL INTELLIGENCE	17	53	4
12VV1A1253	R4112B	UML & DESIGN PATTERNS LAB	22	44	2
12VV1A1253	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1254	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	58	4
12VV1A1254	R41053	DATA WARE HOUSING AND DATA MINING	25	45	4
12VV1A1254	R41054	MOBILE COMPUTING	22	48	4
12VV1A1254	R41058	CYBER LAWS	24	41	4
12VV1A1254	R41121	DESIGN PATTERNS	22	64	4
12VV1A1254	R41129	ARTIFICIAL INTELLIGENCE	16	57	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A1254	R4112B	UML & DESIGN PATTERNS LAB	23	46	2
12VV1A1254	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1255	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	53	4
12VV1A1255	R41053	DATA WARE HOUSING AND DATA MINING	24	50	4
12VV1A1255	R41054	MOBILE COMPUTING	16	34	4
12VV1A1255	R41058	CYBER LAWS	23	32	4
12VV1A1255	R41121	DESIGN PATTERNS	18	44	4
12VV1A1255	R41129	ARTIFICIAL INTELLIGENCE	13	52	4
12VV1A1255	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1255	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A1256	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	44	4
12VV1A1256	R41053	DATA WARE HOUSING AND DATA MINING	25	47	4
12VV1A1256	R41054	MOBILE COMPUTING	19	36	4
12VV1A1256	R41058	CYBER LAWS	23	35	4
12VV1A1256	R41121	DESIGN PATTERNS	14	46	4
12VV1A1256	R41129	ARTIFICIAL INTELLIGENCE	10	45	4
12VV1A1256	R4112B	UML & DESIGN PATTERNS LAB	21	43	2
12VV1A1256	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	23	45	2
12VV1A1257	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	34	4
12VV1A1257	R41053	DATA WARE HOUSING AND DATA MINING	25	41	4
12VV1A1257	R41054	MOBILE COMPUTING	20	36	4
12VV1A1257	R41058	CYBER LAWS	23	35	4
12VV1A1257	R41121	DESIGN PATTERNS	13	46	4
12VV1A1257	R41129	ARTIFICIAL INTELLIGENCE	6	47	4
12VV1A1257	R4112B	UML & DESIGN PATTERNS LAB	19	39	2
12VV1A1257	R4112C	MOBILE APPLICATION DEVELOPMENT LAB	19	39	2
12VV1A3101	R41311	ELECTRO METALLURGY AND CORROSION	15	63	4
12VV1A3101	R41312	POWDER METALLURGY	18	51	4
12VV1A3101	R41313	MECHANICAL WORKING OF METALS	18	50	4
12VV1A3101	R41314	X_RAY METALLOGRAPHY	18	42	4
12VV1A3101	R41316	NANO TECHNOLOGY	15	45	4
12VV1A3101	R4131A	COMPOSITE MATERIALS	22	57	4
12VV1A3101	R4131B	ELECTRO METALLURGY AND CORROSION LAB	19	42	2
12VV1A3101	R4131C	MECHANICAL WORKING OF METALS LAB	18	35	2
12VV1A3102	R41311	ELECTRO METALLURGY AND CORROSION	20	60	4
12VV1A3102	R41312	POWDER METALLURGY	18	46	4
12VV1A3102	R41313	MECHANICAL WORKING OF METALS	20	45	4
12VV1A3102	R41314	X_RAY METALLOGRAPHY	18	37	4
12VV1A3102	R41316	NANO TECHNOLOGY	14	39	4
12VV1A3102	R4131A	COMPOSITE MATERIALS	15	40	4
12VV1A3102	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	44	2
12VV1A3102	R4131C	MECHANICAL WORKING OF METALS LAB	20	41	2
12VV1A3103	R41311	ELECTRO METALLURGY AND CORROSION	21	60	4
12VV1A3103	R41312	POWDER METALLURGY	19	50	4
12VV1A3103	R41313	MECHANICAL WORKING OF METALS	22	58	4
12VV1A3103	R41314	X_RAY METALLOGRAPHY	23	50	4
12VV1A3103	R41316	NANO TECHNOLOGY	20	43	4
12VV1A3103	R4131A	COMPOSITE MATERIALS	20	37	4
12VV1A3103	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	48	2
12VV1A3103	R4131C	MECHANICAL WORKING OF METALS LAB	23	45	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A3104	R41311	ELECTRO METALLURGY AND CORROSION	21	65	4
12VV1A3104	R41312	POWDER METALLURGY	18	59	4
12VV1A3104	R41313	MECHANICAL WORKING OF METALS	20	56	4
12VV1A3104	R41314	X_RAY METALLOGRAPHY	23	50	4
12VV1A3104	R41316	NANO TECHNOLOGY	17	46	4
12VV1A3104	R4131A	COMPOSITE MATERIALS	22	45	4
12VV1A3104	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	42	2
12VV1A3104	R4131C	MECHANICAL WORKING OF METALS LAB	20	42	2
12VV1A3105	R41311	ELECTRO METALLURGY AND CORROSION	19	62	4
12VV1A3105	R41312	POWDER METALLURGY	14	39	4
12VV1A3105	R41313	MECHANICAL WORKING OF METALS	16	36	4
12VV1A3105	R41314	X_RAY METALLOGRAPHY	16	40	4
12VV1A3105	R41316	NANO TECHNOLOGY	17	45	4
12VV1A3105	R4131A	COMPOSITE MATERIALS	20	50	4
12VV1A3105	R4131B	ELECTRO METALLURGY AND CORROSION LAB	19	40	2
12VV1A3105	R4131C	MECHANICAL WORKING OF METALS LAB	18	40	2
12VV1A3106	R41311	ELECTRO METALLURGY AND CORROSION	18	65	4
12VV1A3106	R41312	POWDER METALLURGY	16	37	4
12VV1A3106	R41313	MECHANICAL WORKING OF METALS	18	50	4
12VV1A3106	R41314	X_RAY METALLOGRAPHY	20	40	4
12VV1A3106	R41316	NANO TECHNOLOGY	19	30	4
12VV1A3106	R4131A	COMPOSITE MATERIALS	16	49	4
12VV1A3106	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	46	2
12VV1A3106	R4131C	MECHANICAL WORKING OF METALS LAB	20	41	2
12VV1A3107	R41311	ELECTRO METALLURGY AND CORROSION	22	58	4
12VV1A3107	R41312	POWDER METALLURGY	9	49	4
12VV1A3107	R41313	MECHANICAL WORKING OF METALS	12	32	4
12VV1A3107	R41314	X_RAY METALLOGRAPHY	15	43	4
12VV1A3107	R41316	NANO TECHNOLOGY	0	40	4
12VV1A3107	R4131A	COMPOSITE MATERIALS	20	44	4
12VV1A3107	R4131B	ELECTRO METALLURGY AND CORROSION LAB	20	38	2
12VV1A3107	R4131C	MECHANICAL WORKING OF METALS LAB	18	36	2
12VV1A3108	R41311	ELECTRO METALLURGY AND CORROSION	19	60	4
12VV1A3108	R41312	POWDER METALLURGY	23	59	4
12VV1A3108	R41313	MECHANICAL WORKING OF METALS	22	51	4
12VV1A3108	R41314	X_RAY METALLOGRAPHY	16	38	4
12VV1A3108	R41316	NANO TECHNOLOGY	17	38	4
12VV1A3108	R4131A	COMPOSITE MATERIALS	22	49	4
12VV1A3108	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	47	2
12VV1A3108	R4131C	MECHANICAL WORKING OF METALS LAB	20	43	2
12VV1A3109	R41311	ELECTRO METALLURGY AND CORROSION	21	61	4
12VV1A3109	R41312	POWDER METALLURGY	21	45	4
12VV1A3109	R41313	MECHANICAL WORKING OF METALS	20	51	4
12VV1A3109	R41314	X_RAY METALLOGRAPHY	23	42	4
12VV1A3109	R41316	NANO TECHNOLOGY	19	38	4
12VV1A3109	R4131A	COMPOSITE MATERIALS	21	52	4
12VV1A3109	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	46	2
12VV1A3109	R4131C	MECHANICAL WORKING OF METALS LAB	21	43	2
12VV1A3110	R41311	ELECTRO METALLURGY AND CORROSION	21	65	4
12VV1A3110	R41312	POWDER METALLURGY	18	48	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A3110	R41313	MECHANICAL WORKING OF METALS	18	47	4
12VV1A3110	R41314	X_RAY METALLOGRAPHY	22	61	4
12VV1A3110	R41316	NANO TECHNOLOGY	19	43	4
12VV1A3110	R4131A	COMPOSITE MATERIALS	22	54	4
12VV1A3110	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	47	2
12VV1A3110	R4131C	MECHANICAL WORKING OF METALS LAB	19	39	2
12VV1A3111	R41311	ELECTRO METALLURGY AND CORROSION	17	62	4
12VV1A3111	R41312	POWDER METALLURGY	9	35	4
12VV1A3111	R41313	MECHANICAL WORKING OF METALS	11	29	4
12VV1A3111	R41314	X_RAY METALLOGRAPHY	18	37	4
12VV1A3111	R41316	NANO TECHNOLOGY	9	35	4
12VV1A3111	R4131A	COMPOSITE MATERIALS	12	41	4
12VV1A3111	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	35	2
12VV1A3111	R4131C	MECHANICAL WORKING OF METALS LAB	15	32	2
12VV1A3112	R41311	ELECTRO METALLURGY AND CORROSION	20	65	4
12VV1A3112	R41312	POWDER METALLURGY	17	58	4
12VV1A3112	R41313	MECHANICAL WORKING OF METALS	16	46	4
12VV1A3112	R41314	X_RAY METALLOGRAPHY	15	44	4
12VV1A3112	R41316	NANO TECHNOLOGY	16	45	4
12VV1A3112	R4131A	COMPOSITE MATERIALS	19	62	4
12VV1A3112	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	44	2
12VV1A3112	R4131C	MECHANICAL WORKING OF METALS LAB	19	40	2
12VV1A3113	R41311	ELECTRO METALLURGY AND CORROSION	15	54	4
12VV1A3113	R41312	POWDER METALLURGY	14	41	4
12VV1A3113	R41313	MECHANICAL WORKING OF METALS	13	29	4
12VV1A3113	R41314	X_RAY METALLOGRAPHY	15	36	4
12VV1A3113	R41316	NANO TECHNOLOGY	15	37	4
12VV1A3113	R4131A	COMPOSITE MATERIALS	14	39	4
12VV1A3113	R4131B	ELECTRO METALLURGY AND CORROSION LAB	21	40	2
12VV1A3113	R4131C	MECHANICAL WORKING OF METALS LAB	18	37	2
12VV1A3114	R41311	ELECTRO METALLURGY AND CORROSION	19	63	4
12VV1A3114	R41312	POWDER METALLURGY	20	45	4
12VV1A3114	R41313	MECHANICAL WORKING OF METALS	21	45	4
12VV1A3114	R41314	X_RAY METALLOGRAPHY	21	46	4
12VV1A3114	R41316	NANO TECHNOLOGY	21	42	4
12VV1A3114	R4131A	COMPOSITE MATERIALS	21	40	4
12VV1A3114	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	44	2
12VV1A3114	R4131C	MECHANICAL WORKING OF METALS LAB	21	43	2
12VV1A3115	R41311	ELECTRO METALLURGY AND CORROSION	19	62	4
12VV1A3115	R41312	POWDER METALLURGY	20	49	4
12VV1A3115	R41313	MECHANICAL WORKING OF METALS	21	38	4
12VV1A3115	R41314	X_RAY METALLOGRAPHY	20	44	4
12VV1A3115	R41316	NANO TECHNOLOGY	21	42	4
12VV1A3115	R4131A	COMPOSITE MATERIALS	22	47	4
12VV1A3115	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	42	2
12VV1A3115	R4131C	MECHANICAL WORKING OF METALS LAB	21	43	2
12VV1A3116	R41311	ELECTRO METALLURGY AND CORROSION	22	64	4
12VV1A3116	R41312	POWDER METALLURGY	16	45	4
12VV1A3116	R41313	MECHANICAL WORKING OF METALS	17	48	4
12VV1A3116	R41314	X_RAY METALLOGRAPHY	18	38	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A3116	R41316	NANO TECHNOLOGY	15	39	4
12VV1A3116	R4131A	COMPOSITE MATERIALS	17	49	4
12VV1A3116	R4131B	ELECTRO METALLURGY AND CORROSION LAB	21	42	2
12VV1A3116	R4131C	MECHANICAL WORKING OF METALS LAB	17	38	2
12VV1A3117	R41311	ELECTRO METALLURGY AND CORROSION	21	64	4
12VV1A3117	R41312	POWDER METALLURGY	20	46	4
12VV1A3117	R41313	MECHANICAL WORKING OF METALS	20	41	4
12VV1A3117	R41314	X_RAY METALLOGRAPHY	16	42	4
12VV1A3117	R41316	NANO TECHNOLOGY	21	40	4
12VV1A3117	R4131A	COMPOSITE MATERIALS	18	53	4
12VV1A3117	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	43	2
12VV1A3117	R4131C	MECHANICAL WORKING OF METALS LAB	19	39	2
12VV1A3118	R41311	ELECTRO METALLURGY AND CORROSION	20	64	4
12VV1A3118	R41312	POWDER METALLURGY	16	39	4
12VV1A3118	R41313	MECHANICAL WORKING OF METALS	19	42	4
12VV1A3118	R41314	X_RAY METALLOGRAPHY	19	41	4
12VV1A3118	R41316	NANO TECHNOLOGY	18	44	4
12VV1A3118	R4131A	COMPOSITE MATERIALS	21	54	4
12VV1A3118	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	47	2
12VV1A3118	R4131C	MECHANICAL WORKING OF METALS LAB	18	41	2
12VV1A3119	R41311	ELECTRO METALLURGY AND CORROSION	21	60	4
12VV1A3119	R41312	POWDER METALLURGY	16	33	4
12VV1A3119	R41313	MECHANICAL WORKING OF METALS	18	33	4
12VV1A3119	R41314	X_RAY METALLOGRAPHY	15	36	4
12VV1A3119	R41316	NANO TECHNOLOGY	17	34	4
12VV1A3119	R4131A	COMPOSITE MATERIALS	17	40	4
12VV1A3119	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	41	2
12VV1A3119	R4131C	MECHANICAL WORKING OF METALS LAB	18	37	2
12VV1A3120	R41311	ELECTRO METALLURGY AND CORROSION	15	51	4
12VV1A3120	R41312	POWDER METALLURGY	0	40	4
12VV1A3120	R41313	MECHANICAL WORKING OF METALS	0	40	4
12VV1A3120	R41314	X_RAY METALLOGRAPHY	0	40	4
12VV1A3120	R41316	NANO TECHNOLOGY	0	40	4
12VV1A3120	R4131A	COMPOSITE MATERIALS	0	43	4
12VV1A3120	R4131B	ELECTRO METALLURGY AND CORROSION LAB	20	35	2
12VV1A3120	R4131C	MECHANICAL WORKING OF METALS LAB	15	32	2
12VV1A3122	R41311	ELECTRO METALLURGY AND CORROSION	16	60	4
12VV1A3122	R41312	POWDER METALLURGY	16	43	4
12VV1A3122	R41313	MECHANICAL WORKING OF METALS	18	53	4
12VV1A3122	R41314	X_RAY METALLOGRAPHY	18	54	4
12VV1A3122	R41316	NANO TECHNOLOGY	16	47	4
12VV1A3122	R4131A	COMPOSITE MATERIALS	17	45	4
12VV1A3122	R4131B	ELECTRO METALLURGY AND CORROSION LAB	21	42	2
12VV1A3122	R4131C	MECHANICAL WORKING OF METALS LAB	17	39	2
12VV1A3123	R41311	ELECTRO METALLURGY AND CORROSION	17	63	4
12VV1A3123	R41312	POWDER METALLURGY	15	58	4
12VV1A3123	R41313	MECHANICAL WORKING OF METALS	21	50	4
12VV1A3123	R41314	X_RAY METALLOGRAPHY	15	55	4
12VV1A3123	R41316	NANO TECHNOLOGY	17	40	4
12VV1A3123	R4131A	COMPOSITE MATERIALS	21	46	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A3123	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	38	2
12VV1A3123	R4131C	MECHANICAL WORKING OF METALS LAB	17	36	2
12VV1A3124	R41311	ELECTRO METALLURGY AND CORROSION	20	63	4
12VV1A3124	R41312	POWDER METALLURGY	20	51	4
12VV1A3124	R41313	MECHANICAL WORKING OF METALS	18	43	4
12VV1A3124	R41314	X_RAY METALLOGRAPHY	18	53	4
12VV1A3124	R41316	NANO TECHNOLOGY	19	46	4
12VV1A3124	R4131A	COMPOSITE MATERIALS	18	49	4
12VV1A3124	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	40	2
12VV1A3124	R4131C	MECHANICAL WORKING OF METALS LAB	19	40	2
12VV1A3125	R41311	ELECTRO METALLURGY AND CORROSION	24	64	4
12VV1A3125	R41312	POWDER METALLURGY	21	58	4
12VV1A3125	R41313	MECHANICAL WORKING OF METALS	20	47	4
12VV1A3125	R41314	X_RAY METALLOGRAPHY	23	56	4
12VV1A3125	R41316	NANO TECHNOLOGY	22	48	4
12VV1A3125	R4131A	COMPOSITE MATERIALS	22	48	4
12VV1A3125	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	47	2
12VV1A3125	R4131C	MECHANICAL WORKING OF METALS LAB	22	47	2
12VV1A3126	R41311	ELECTRO METALLURGY AND CORROSION	22	66	4
12VV1A3126	R41312	POWDER METALLURGY	19	63	4
12VV1A3126	R41313	MECHANICAL WORKING OF METALS	21	53	4
12VV1A3126	R41314	X_RAY METALLOGRAPHY	23	62	4
12VV1A3126	R41316	NANO TECHNOLOGY	22	44	4
12VV1A3126	R4131A	COMPOSITE MATERIALS	24	53	4
12VV1A3126	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	46	2
12VV1A3126	R4131C	MECHANICAL WORKING OF METALS LAB	23	48	2
12VV1A3127	R41311	ELECTRO METALLURGY AND CORROSION	23	61	4
12VV1A3127	R41312	POWDER METALLURGY	20	47	4
12VV1A3127	R41313	MECHANICAL WORKING OF METALS	20	55	4
12VV1A3127	R41314	X_RAY METALLOGRAPHY	23	45	4
12VV1A3127	R41316	NANO TECHNOLOGY	21	50	4
12VV1A3127	R4131A	COMPOSITE MATERIALS	24	41	4
12VV1A3127	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	48	2
12VV1A3127	R4131C	MECHANICAL WORKING OF METALS LAB	22	46	2
12VV1A3129	R41311	ELECTRO METALLURGY AND CORROSION	19	58	4
12VV1A3129	R41312	POWDER METALLURGY	17	49	4
12VV1A3129	R41313	MECHANICAL WORKING OF METALS	18	44	4
12VV1A3129	R41314	X_RAY METALLOGRAPHY	18	55	4
12VV1A3129	R41316	NANO TECHNOLOGY	15	43	4
12VV1A3129	R4131A	COMPOSITE MATERIALS	20	36	4
12VV1A3129	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	40	2
12VV1A3129	R4131C	MECHANICAL WORKING OF METALS LAB	19	40	2
12VV1A3131	R41311	ELECTRO METALLURGY AND CORROSION	18	62	4
12VV1A3131	R41312	POWDER METALLURGY	13	39	4
12VV1A3131	R41313	MECHANICAL WORKING OF METALS	20	34	4
12VV1A3131	R41314	X_RAY METALLOGRAPHY	21	50	4
12VV1A3131	R41316	NANO TECHNOLOGY	19	46	4
12VV1A3131	R4131A	COMPOSITE MATERIALS	23	30	4
12VV1A3131	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	48	2
12VV1A3131	R4131C	MECHANICAL WORKING OF METALS LAB	18	43	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A3132	R41311	ELECTRO METALLURGY AND CORROSION	23	63	4
12VV1A3132	R41312	POWDER METALLURGY	23	58	4
12VV1A3132	R41313	MECHANICAL WORKING OF METALS	21	51	4
12VV1A3132	R41314	X_RAY METALLOGRAPHY	19	50	4
12VV1A3132	R41316	NANO TECHNOLOGY	20	48	4
12VV1A3132	R4131A	COMPOSITE MATERIALS	23	41	4
12VV1A3132	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	48	2
12VV1A3132	R4131C	MECHANICAL WORKING OF METALS LAB	22	41	2
12VV1A3133	R41311	ELECTRO METALLURGY AND CORROSION	15	63	4
12VV1A3133	R41312	POWDER METALLURGY	17	46	4
12VV1A3133	R41313	MECHANICAL WORKING OF METALS	17	35	4
12VV1A3133	R41314	X_RAY METALLOGRAPHY	16	39	4
12VV1A3133	R41316	NANO TECHNOLOGY	16	45	4
12VV1A3133	R4131A	COMPOSITE MATERIALS	16	26	4
12VV1A3133	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	35	2
12VV1A3133	R4131C	MECHANICAL WORKING OF METALS LAB	16	34	2
12VV1A3134	R41311	ELECTRO METALLURGY AND CORROSION	21	60	4
12VV1A3134	R41312	POWDER METALLURGY	18	44	4
12VV1A3134	R41313	MECHANICAL WORKING OF METALS	21	36	4
12VV1A3134	R41314	X_RAY METALLOGRAPHY	22	44	4
12VV1A3134	R41316	NANO TECHNOLOGY	20	43	4
12VV1A3134	R4131A	COMPOSITE MATERIALS	18	42	4
12VV1A3134	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	47	2
12VV1A3134	R4131C	MECHANICAL WORKING OF METALS LAB	22	43	2
12VV1A3135	R41311	ELECTRO METALLURGY AND CORROSION	20	64	4
12VV1A3135	R41312	POWDER METALLURGY	20	63	4
12VV1A3135	R41313	MECHANICAL WORKING OF METALS	22	41	4
12VV1A3135	R41314	X_RAY METALLOGRAPHY	20	51	4
12VV1A3135	R41316	NANO TECHNOLOGY	19	43	4
12VV1A3135	R4131A	COMPOSITE MATERIALS	22	46	4
12VV1A3135	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	44	2
12VV1A3135	R4131C	MECHANICAL WORKING OF METALS LAB	20	39	2
12VV1A3136	R41311	ELECTRO METALLURGY AND CORROSION	14	62	4
12VV1A3136	R41312	POWDER METALLURGY	15	56	4
12VV1A3136	R41313	MECHANICAL WORKING OF METALS	16	36	4
12VV1A3136	R41314	X_RAY METALLOGRAPHY	18	36	4
12VV1A3136	R41316	NANO TECHNOLOGY	16	41	4
12VV1A3136	R4131A	COMPOSITE MATERIALS	21	62	4
12VV1A3136	R4131B	ELECTRO METALLURGY AND CORROSION LAB	20	38	2
12VV1A3136	R4131C	MECHANICAL WORKING OF METALS LAB	17	42	2
12VV1A3137	R41311	ELECTRO METALLURGY AND CORROSION	18	63	4
12VV1A3137	R41312	POWDER METALLURGY	17	58	4
12VV1A3137	R41313	MECHANICAL WORKING OF METALS	19	52	4
12VV1A3137	R41314	X_RAY METALLOGRAPHY	19	44	4
12VV1A3137	R41316	NANO TECHNOLOGY	18	46	4
12VV1A3137	R4131A	COMPOSITE MATERIALS	22	51	4
12VV1A3137	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	44	2
12VV1A3137	R4131C	MECHANICAL WORKING OF METALS LAB	18	41	2
12VV1A3138	R41311	ELECTRO METALLURGY AND CORROSION	17	63	4
12VV1A3138	R41312	POWDER METALLURGY	15	57	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A3138	R41313	MECHANICAL WORKING OF METALS	11	44	4
12VV1A3138	R41314	X_RAY METALLOGRAPHY	14	50	4
12VV1A3138	R41316	NANO TECHNOLOGY	18	42	4
12VV1A3138	R4131A	COMPOSITE MATERIALS	19	40	4
12VV1A3138	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	42	2
12VV1A3138	R4131C	MECHANICAL WORKING OF METALS LAB	18	40	2
12VV1A3139	R41311	ELECTRO METALLURGY AND CORROSION	18	65	4
12VV1A3139	R41312	POWDER METALLURGY	18	41	4
12VV1A3139	R41313	MECHANICAL WORKING OF METALS	13	39	4
12VV1A3139	R41314	X_RAY METALLOGRAPHY	14	39	4
12VV1A3139	R41316	NANO TECHNOLOGY	16	43	4
12VV1A3139	R4131A	COMPOSITE MATERIALS	15	41	4
12VV1A3139	R4131B	ELECTRO METALLURGY AND CORROSION LAB	20	40	2
12VV1A3139	R4131C	MECHANICAL WORKING OF METALS LAB	17	37	2
12VV1A3140	R41311	ELECTRO METALLURGY AND CORROSION	22	65	4
12VV1A3140	R41312	POWDER METALLURGY	20	47	4
12VV1A3140	R41313	MECHANICAL WORKING OF METALS	19	53	4
12VV1A3140	R41314	X_RAY METALLOGRAPHY	18	48	4
12VV1A3140	R41316	NANO TECHNOLOGY	18	52	4
12VV1A3140	R4131A	COMPOSITE MATERIALS	20	43	4
12VV1A3140	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	42	2
12VV1A3140	R4131C	MECHANICAL WORKING OF METALS LAB	19	39	2
12VV1A3141	R41311	ELECTRO METALLURGY AND CORROSION	22	60	4
12VV1A3141	R41312	POWDER METALLURGY	21	52	4
12VV1A3141	R41313	MECHANICAL WORKING OF METALS	20	57	4
12VV1A3141	R41314	X_RAY METALLOGRAPHY	20	50	4
12VV1A3141	R41316	NANO TECHNOLOGY	23	47	4
12VV1A3141	R4131A	COMPOSITE MATERIALS	22	48	4
12VV1A3141	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	44	2
12VV1A3141	R4131C	MECHANICAL WORKING OF METALS LAB	22	44	2
12VV1A3142	R41311	ELECTRO METALLURGY AND CORROSION	21	61	4
12VV1A3142	R41312	POWDER METALLURGY	18	55	4
12VV1A3142	R41313	MECHANICAL WORKING OF METALS	20	52	4
12VV1A3142	R41314	X_RAY METALLOGRAPHY	20	46	4
12VV1A3142	R41316	NANO TECHNOLOGY	16	45	4
12VV1A3142	R4131A	COMPOSITE MATERIALS	23	46	4
12VV1A3142	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	44	2
12VV1A3142	R4131C	MECHANICAL WORKING OF METALS LAB	20	43	2
12VV1A3143	R41311	ELECTRO METALLURGY AND CORROSION	17	61	4
12VV1A3143	R41312	POWDER METALLURGY	20	42	4
12VV1A3143	R41313	MECHANICAL WORKING OF METALS	17	42	4
12VV1A3143	R41314	X_RAY METALLOGRAPHY	18	42	4
12VV1A3143	R41316	NANO TECHNOLOGY	16	34	4
12VV1A3143	R4131A	COMPOSITE MATERIALS	22	42	4
12VV1A3143	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	40	2
12VV1A3143	R4131C	MECHANICAL WORKING OF METALS LAB	19	40	2
12VV1A3144	R41311	ELECTRO METALLURGY AND CORROSION	20	56	4
12VV1A3144	R41312	POWDER METALLURGY	17	46	4
12VV1A3144	R41313	MECHANICAL WORKING OF METALS	14	43	4
12VV1A3144	R41314	X_RAY METALLOGRAPHY	15	40	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A3144	R41316	NANO TECHNOLOGY	16	41	4
12VV1A3144	R4131A	COMPOSITE MATERIALS	17	27	4
12VV1A3144	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	44	2
12VV1A3144	R4131C	MECHANICAL WORKING OF METALS LAB	19	40	2
12VV1A3145	R41311	ELECTRO METALLURGY AND CORROSION	24	62	4
12VV1A3145	R41312	POWDER METALLURGY	22	70	4
12VV1A3145	R41313	MECHANICAL WORKING OF METALS	20	61	4
12VV1A3145	R41314	X_RAY METALLOGRAPHY	24	54	4
12VV1A3145	R41316	NANO TECHNOLOGY	20	48	4
12VV1A3145	R4131A	COMPOSITE MATERIALS	23	54	4
12VV1A3145	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	45	2
12VV1A3145	R4131C	MECHANICAL WORKING OF METALS LAB	21	46	2
12VV1A3146	R41311	ELECTRO METALLURGY AND CORROSION	19	61	4
12VV1A3146	R41312	POWDER METALLURGY	18	43	4
12VV1A3146	R41313	MECHANICAL WORKING OF METALS	15	38	4
12VV1A3146	R41314	X_RAY METALLOGRAPHY	16	38	4
12VV1A3146	R41316	NANO TECHNOLOGY	14	36	4
12VV1A3146	R4131A	COMPOSITE MATERIALS	21	38	4
12VV1A3146	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	42	2
12VV1A3146	R4131C	MECHANICAL WORKING OF METALS LAB	17	37	2
12VV1A3147	R41311	ELECTRO METALLURGY AND CORROSION	21	60	4
12VV1A3147	R41312	POWDER METALLURGY	19	45	4
12VV1A3147	R41313	MECHANICAL WORKING OF METALS	19	40	4
12VV1A3147	R41314	X_RAY METALLOGRAPHY	19	36	4
12VV1A3147	R41316	NANO TECHNOLOGY	16	38	4
12VV1A3147	R4131A	COMPOSITE MATERIALS	20	41	4
12VV1A3147	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	40	2
12VV1A3147	R4131C	MECHANICAL WORKING OF METALS LAB	18	38	2
12VV1A3148	R41311	ELECTRO METALLURGY AND CORROSION	23	63	4
12VV1A3148	R41312	POWDER METALLURGY	18	66	4
12VV1A3148	R41313	MECHANICAL WORKING OF METALS	22	40	4
12VV1A3148	R41314	X_RAY METALLOGRAPHY	21	50	4
12VV1A3148	R41316	NANO TECHNOLOGY	21	44	4
12VV1A3148	R4131A	COMPOSITE MATERIALS	22	46	4
12VV1A3148	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	45	2
12VV1A3148	R4131C	MECHANICAL WORKING OF METALS LAB	18	40	2
12VV1A3149	R41311	ELECTRO METALLURGY AND CORROSION	25	67	4
12VV1A3149	R41312	POWDER METALLURGY	23	63	4
12VV1A3149	R41313	MECHANICAL WORKING OF METALS	22	57	4
12VV1A3149	R41314	X_RAY METALLOGRAPHY	23	64	4
12VV1A3149	R41316	NANO TECHNOLOGY	22	52	4
12VV1A3149	R4131A	COMPOSITE MATERIALS	24	41	4
12VV1A3149	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	48	2
12VV1A3149	R4131C	MECHANICAL WORKING OF METALS LAB	22	46	2
12VV1A3150	R41311	ELECTRO METALLURGY AND CORROSION	22	59	4
12VV1A3150	R41312	POWDER METALLURGY	19	49	4
12VV1A3150	R41313	MECHANICAL WORKING OF METALS	20	50	4
12VV1A3150	R41314	X_RAY METALLOGRAPHY	20	42	4
12VV1A3150	R41316	NANO TECHNOLOGY	18	40	4
12VV1A3150	R4131A	COMPOSITE MATERIALS	23	31	4

Htno	Subcode	Subname	Internal	External	credits
12VV1A3150	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	43	2
12VV1A3150	R4131C	MECHANICAL WORKING OF METALS LAB	19	40	2
12VV1A3151	R41311	ELECTRO METALLURGY AND CORROSION	20	56	4
12VV1A3151	R41312	POWDER METALLURGY	17	46	4
12VV1A3151	R41313	MECHANICAL WORKING OF METALS	13	53	4
12VV1A3151	R41314	X_RAY METALLOGRAPHY	23	48	4
12VV1A3151	R41316	NANO TECHNOLOGY	20	42	4
12VV1A3151	R4131A	COMPOSITE MATERIALS	19	41	4
12VV1A3151	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	45	2
12VV1A3151	R4131C	MECHANICAL WORKING OF METALS LAB	20	41	2
12VV1A3152	R41311	ELECTRO METALLURGY AND CORROSION	17	59	4
12VV1A3152	R41312	POWDER METALLURGY	17	61	4
12VV1A3152	R41313	MECHANICAL WORKING OF METALS	15	46	4
12VV1A3152	R41314	X_RAY METALLOGRAPHY	20	46	4
12VV1A3152	R41316	NANO TECHNOLOGY	19	40	4
12VV1A3152	R4131A	COMPOSITE MATERIALS	19	50	4
12VV1A3152	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	43	2
12VV1A3152	R4131C	MECHANICAL WORKING OF METALS LAB	18	42	2
12VV1A3153	R41311	ELECTRO METALLURGY AND CORROSION	23	60	4
12VV1A3153	R41312	POWDER METALLURGY	20	42	4
12VV1A3153	R41313	MECHANICAL WORKING OF METALS	21	51	4
12VV1A3153	R41314	X_RAY METALLOGRAPHY	22	46	4
12VV1A3153	R41316	NANO TECHNOLOGY	15	41	4
12VV1A3153	R4131A	COMPOSITE MATERIALS	23	49	4
12VV1A3153	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	42	2
12VV1A3153	R4131C	MECHANICAL WORKING OF METALS LAB	19	40	2
12VV1A3154	R41311	ELECTRO METALLURGY AND CORROSION	20	49	4
12VV1A3154	R41312	POWDER METALLURGY	15	35	4
12VV1A3154	R41313	MECHANICAL WORKING OF METALS	17	38	4
12VV1A3154	R41314	X_RAY METALLOGRAPHY	13	41	4
12VV1A3154	R41316	NANO TECHNOLOGY	16	38	4
12VV1A3154	R4131A	COMPOSITE MATERIALS	16	48	4
12VV1A3154	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	35	2
12VV1A3154	R4131C	MECHANICAL WORKING OF METALS LAB	16	37	2
12VV1A3155	R41311	ELECTRO METALLURGY AND CORROSION	20	63	4
12VV1A3155	R41312	POWDER METALLURGY	23	46	4
12VV1A3155	R41313	MECHANICAL WORKING OF METALS	20	54	4
12VV1A3155	R41314	X_RAY METALLOGRAPHY	23	44	4
12VV1A3155	R41316	NANO TECHNOLOGY	22	45	4
12VV1A3155	R4131A	COMPOSITE MATERIALS	24	46	4
12VV1A3155	R4131B	ELECTRO METALLURGY AND CORROSION LAB	23	44	2
12VV1A3155	R4131C	MECHANICAL WORKING OF METALS LAB	21	44	2
12VV1A3156	R41311	ELECTRO METALLURGY AND CORROSION	18	53	4
12VV1A3156	R41312	POWDER METALLURGY	18	48	4
12VV1A3156	R41313	MECHANICAL WORKING OF METALS	19	42	4
12VV1A3156	R41314	X_RAY METALLOGRAPHY	18	44	4
12VV1A3156	R41316	NANO TECHNOLOGY	14	43	4
12VV1A3156	R4131A	COMPOSITE MATERIALS	20	43	4
12VV1A3156	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	42	2
12VV1A3156	R4131C	MECHANICAL WORKING OF METALS LAB	19	39	2

Htno	Subcode	Subname	Internal	External	credits
12VV1A3158	R41311	ELECTRO METALLURGY AND CORROSION	18	48	4
12VV1A3158	R41312	POWDER METALLURGY	16	30	4
12VV1A3158	R41313	MECHANICAL WORKING OF METALS	14	30	4
12VV1A3158	R41314	X_RAY METALLOGRAPHY	15	35	4
12VV1A3158	R41316	NANO TECHNOLOGY	18	32	4
12VV1A3158	R4131A	COMPOSITE MATERIALS	12	28	4
12VV1A3158	R4131B	ELECTRO METALLURGY AND CORROSION LAB	22	41	2
12VV1A3158	R4131C	MECHANICAL WORKING OF METALS LAB	19	35	2
12VV1A3159	R41311	ELECTRO METALLURGY AND CORROSION	22	64	4
12VV1A3159	R41312	POWDER METALLURGY	20	54	4
12VV1A3159	R41313	MECHANICAL WORKING OF METALS	21	56	4
12VV1A3159	R41314	X_RAY METALLOGRAPHY	23	63	4
12VV1A3159	R41316	NANO TECHNOLOGY	22	47	4
12VV1A3159	R4131A	COMPOSITE MATERIALS	24	47	4
12VV1A3159	R4131B	ELECTRO METALLURGY AND CORROSION LAB	24	48	2
12VV1A3159	R4131C	MECHANICAL WORKING OF METALS LAB	22	46	2

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Controller of Examinations