



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Result of IV B.Tech[R10,R07,R05] I Semester Regular/Supplementary Examinations Nov-2015

College: ST.MARY'S GROUP OF INSTITUTIONS, CHEBROLU, GUNTUR:BJ

Htno	Subcode	Subname	Internal	External	credits
07BJ1A1244	M1222	INFORMATION SECURITY	10	7	0
09BJ1A0314	R41031	REFRIGERATION & AIR CONDITIONING	15	32	4
09BJ1A0314	R41032	CAD/CAM	12	11	0
09BJ1A0314	R41033	ALTERNATIVE SOURCES OF ENERGY	16	4	0
09BJ1A0314	R41037	AUTOMOBILE ENGINEERING	15	6	0
09BJ1A0316	R41031	REFRIGERATION & AIR CONDITIONING	14	0	0
09BJ1A0316	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	-1	0
09BJ1A0421	R41042	EMBEDDED SYSTEMS	15	28	4
09BJ1A0421	R41043	DIGITAL IMAGE PROCESSING	19	-1	0
09BJ1A0516	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	16	0
09BJ1A0516	R41057	OPEN SOURCE SOFTWARE	16	9	0
09BJ1A0516	R4105B	SOFTWARE PROJECT MANAGEMENT	13	12	0
09BJ1A0526	R41052	UML & DESIGN PATTERNS	12	10	0
09BJ1A0526	R41054	MOBILE COMPUTING	22	67	4
09BJ1A0534	R41053	DATA WARE HOUSING AND DATA MINING	13	30	4
09BJ5A0201	R41022	HIGH VOLTAGE ENGINEERING	19	-1	0
09BJ5A0201	R41024	POWER SYSTEM OPERATION & CONTROL	21	-1	0
09BJ5A0201	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	23	-1	0
09BJ5A0404	R41043	DIGITAL IMAGE PROCESSING	14	-1	0
09BJ5A0404	R41046	ANALOG IC DESIGN	22	-1	0
10BJ1A0237	R41023	SWITCH GEAR & PROTECTION	19	27	4
10BJ1A0306	R41031	REFRIGERATION & AIR CONDITIONING	17	-1	0
10BJ1A0306	R41034	UNCONVENTIONAL MACHINING PROCESSES	11	-1	0
10BJ1A0306	R41035	MEMS	11	-1	0
10BJ1A0306	R41037	AUTOMOBILE ENGINEERING	12	-1	0
10BJ1A0306	R4103B	SIMULATION LAB	21	-1	0
10BJ1A0306	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	-1	0
10BJ1A0335	R41031	REFRIGERATION & AIR CONDITIONING	17	9	0
10BJ1A0401	R41026	INSTRUMENTATION	23	36	4
10BJ1A0401	R41041	OPTICAL COMMUNICATIONS	24	63	4
10BJ1A0401	R41042	EMBEDDED SYSTEMS	23	74	4
10BJ1A0401	R41043	DIGITAL IMAGE PROCESSING	24	26	4
10BJ1A0401	R41044	RADAR SYSTEMS	24	50	4
10BJ1A0401	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	24	35	4
10BJ1A0401	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
10BJ1A0401	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	48	2
10BJ1A0420	R41043	DIGITAL IMAGE PROCESSING	17	12	0
10BJ1A0420	R41044	RADAR SYSTEMS	19	11	0
10BJ1A0421	R41043	DIGITAL IMAGE PROCESSING	15	-1	0
10BJ1A0430	R41041	OPTICAL COMMUNICATIONS	18	-1	0
10BJ1A0430	R41042	EMBEDDED SYSTEMS	15	-1	0
10BJ1A0430	R41043	DIGITAL IMAGE PROCESSING	19	-1	0
10BJ1A0441	R41042	EMBEDDED SYSTEMS	15	30	4
10BJ1A0441	R41043	DIGITAL IMAGE PROCESSING	16	6	0
10BJ1A0449	R41043	DIGITAL IMAGE PROCESSING	9	-1	0
10BJ1A0451	R41043	DIGITAL IMAGE PROCESSING	17	5	0

Htno	Subcode	Subname	Internal	External	credits
10BJ1A0524	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	28	4
10BJ1A0524	R41052	UML & DESIGN PATTERNS	13	33	4
10BJ1A0535	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	11	0
10BJ1A0535	R41052	UML & DESIGN PATTERNS	15	-1	0
10BJ1A0535	R41057	OPEN SOURCE SOFTWARE	16	-1	0
10BJ1A0535	R4105B	SOFTWARE PROJECT MANAGEMENT	13	-1	0
10BJ1A0536	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	5	0
10BJ1A0536	R41053	DATA WARE HOUSING AND DATA MINING	9	22	0
10BJ1A0563	R41057	OPEN SOURCE SOFTWARE	18	36	4
10BJ1A0564	R41053	DATA WARE HOUSING AND DATA MINING	16	31	4
10BJ1A0570	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	12	0
10BJ1A0570	R41052	UML & DESIGN PATTERNS	15	12	0
10BJ1A0570	R41053	DATA WARE HOUSING AND DATA MINING	14	14	0
10BJ1A0570	R41054	MOBILE COMPUTING	19	10	0
10BJ1A0570	R41057	OPEN SOURCE SOFTWARE	14	8	0
10BJ1A0570	R4105B	SOFTWARE PROJECT MANAGEMENT	15	26	4
11BJ1A0305	R41031	REFRIGERATION & AIR CONDITIONING	17	54	4
11BJ1A0305	R41034	UNCONVENTIONAL MACHINING PROCESSES	15	13	0
11BJ1A0305	R41037	AUTOMOBILE ENGINEERING	14	34	4
11BJ1A0308	R41031	REFRIGERATION & AIR CONDITIONING	15	0	0
11BJ1A0309	R41033	ALTERNATIVE SOURCES OF ENERGY	18	15	0
11BJ1A0312	R41031	REFRIGERATION & AIR CONDITIONING	15	27	4
11BJ1A0312	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	31	4
11BJ1A0312	R41037	AUTOMOBILE ENGINEERING	20	20	0
11BJ1A0324	R41031	REFRIGERATION & AIR CONDITIONING	15	7	0
11BJ1A0324	R41033	ALTERNATIVE SOURCES OF ENERGY	12	6	0
11BJ1A0324	R41034	UNCONVENTIONAL MACHINING PROCESSES	13	-1	0
11BJ1A0410	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	31	4
11BJ1A0417	R41026	INSTRUMENTATION	21	-1	0
11BJ1A0419	R41042	EMBEDDED SYSTEMS	19	-1	0
11BJ1A0423	R41026	INSTRUMENTATION	6	-1	0
11BJ1A0423	R41043	DIGITAL IMAGE PROCESSING	15	-1	0
11BJ1A0423	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	-1	0
11BJ1A0432	R41026	INSTRUMENTATION	19	-1	0
11BJ1A0432	R41042	EMBEDDED SYSTEMS	12	-1	0
11BJ1A0439	R41042	EMBEDDED SYSTEMS	20	13	0
11BJ1A0439	R41043	DIGITAL IMAGE PROCESSING	18	-1	0
11BJ1A0443	R41043	DIGITAL IMAGE PROCESSING	19	-1	0
11BJ1A0443	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	-1	0
11BJ1A0451	R41026	INSTRUMENTATION	14	-1	0
11BJ1A0451	R41042	EMBEDDED SYSTEMS	4	-1	0
11BJ1A0451	R41044	RADAR SYSTEMS	17	-1	0
11BJ1A0451	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	-1	0
11BJ1A0467	R41026	INSTRUMENTATION	14	-1	0
11BJ1A0467	R41044	RADAR SYSTEMS	19	-1	0
11BJ1A0519	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	17	0
11BJ1A0519	R41054	MOBILE COMPUTING	21	26	4
11BJ1A0534	R41054	MOBILE COMPUTING	20	12	0
11BJ1A0534	R4105B	SOFTWARE PROJECT MANAGEMENT	22	11	0
11BJ1A0535	R41052	UML & DESIGN PATTERNS	17	11	0
11BJ1A0535	R41054	MOBILE COMPUTING	14	0	0

Htno	Subcode	Subname	Internal	External	credits
11BJ1A0535	R4105B	SOFTWARE PROJECT MANAGEMENT	18	11	0
11BJ1A0538	R41053	DATA WARE HOUSING AND DATA MINING	20	30	4
11BJ1A0538	R4105B	SOFTWARE PROJECT MANAGEMENT	22	11	0
11BJ1A0542	R4105B	SOFTWARE PROJECT MANAGEMENT	19	33	4
12BJ1A0201	R41021	COMPUTER ORGANIZATION	20	47	4
12BJ1A0201	R41022	HIGH VOLTAGE ENGINEERING	24	47	4
12BJ1A0201	R41023	SWITCH GEAR & PROTECTION	21	26	4
12BJ1A0201	R41024	POWER SYSTEM OPERATION & CONTROL	23	38	4
12BJ1A0201	R41026	INSTRUMENTATION	23	52	4
12BJ1A0201	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	23	53	4
12BJ1A0201	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	48	2
12BJ1A0201	R4102D	ELECTRICAL SIMULATION LAB	25	49	2
12BJ1A0202	R41021	COMPUTER ORGANIZATION	9	-1	0
12BJ1A0202	R41022	HIGH VOLTAGE ENGINEERING	13	-1	0
12BJ1A0202	R41023	SWITCH GEAR & PROTECTION	9	-1	0
12BJ1A0202	R41024	POWER SYSTEM OPERATION & CONTROL	12	-1	0
12BJ1A0202	R41026	INSTRUMENTATION	14	-1	0
12BJ1A0202	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	11	-1	0
12BJ1A0202	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	-1	0
12BJ1A0202	R4102D	ELECTRICAL SIMULATION LAB	16	-1	0
12BJ1A0203	R41021	COMPUTER ORGANIZATION	23	38	4
12BJ1A0203	R41022	HIGH VOLTAGE ENGINEERING	21	34	4
12BJ1A0203	R41023	SWITCH GEAR & PROTECTION	23	8	0
12BJ1A0203	R41024	POWER SYSTEM OPERATION & CONTROL	24	4	0
12BJ1A0203	R41026	INSTRUMENTATION	20	26	4
12BJ1A0203	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	22	52	4
12BJ1A0203	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	18	45	2
12BJ1A0203	R4102D	ELECTRICAL SIMULATION LAB	22	43	2
12BJ1A0204	R41021	COMPUTER ORGANIZATION	22	35	4
12BJ1A0204	R41022	HIGH VOLTAGE ENGINEERING	23	33	4
12BJ1A0204	R41023	SWITCH GEAR & PROTECTION	23	28	4
12BJ1A0204	R41024	POWER SYSTEM OPERATION & CONTROL	24	39	4
12BJ1A0204	R41026	INSTRUMENTATION	20	40	4
12BJ1A0204	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	23	41	4
12BJ1A0204	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	46	2
12BJ1A0204	R4102D	ELECTRICAL SIMULATION LAB	24	49	2
12BJ1A0205	R41021	COMPUTER ORGANIZATION	21	31	4
12BJ1A0205	R41022	HIGH VOLTAGE ENGINEERING	23	31	4
12BJ1A0205	R41023	SWITCH GEAR & PROTECTION	21	31	4
12BJ1A0205	R41024	POWER SYSTEM OPERATION & CONTROL	21	37	4
12BJ1A0205	R41026	INSTRUMENTATION	20	46	4
12BJ1A0205	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	24	30	4
12BJ1A0205	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	49	2
12BJ1A0205	R4102D	ELECTRICAL SIMULATION LAB	24	49	2
12BJ1A0206	R41021	COMPUTER ORGANIZATION	24	39	4
12BJ1A0206	R41022	HIGH VOLTAGE ENGINEERING	25	57	4
12BJ1A0206	R41023	SWITCH GEAR & PROTECTION	25	37	4
12BJ1A0206	R41024	POWER SYSTEM OPERATION & CONTROL	23	54	4
12BJ1A0206	R41026	INSTRUMENTATION	25	36	4
12BJ1A0206	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	25	57	4
12BJ1A0206	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	44	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0206	R4102D	ELECTRICAL SIMULATION LAB	23	46	2
12BJ1A0207	R41021	COMPUTER ORGANIZATION	20	56	4
12BJ1A0207	R41022	HIGH VOLTAGE ENGINEERING	23	52	4
12BJ1A0207	R41023	SWITCH GEAR & PROTECTION	17	6	0
12BJ1A0207	R41024	POWER SYSTEM OPERATION & CONTROL	17	26	4
12BJ1A0207	R41026	INSTRUMENTATION	21	15	0
12BJ1A0207	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	-1	0
12BJ1A0207	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	42	2
12BJ1A0207	R4102D	ELECTRICAL SIMULATION LAB	22	43	2
12BJ1A0208	R41021	COMPUTER ORGANIZATION	15	26	4
12BJ1A0208	R41022	HIGH VOLTAGE ENGINEERING	18	3	0
12BJ1A0208	R41023	SWITCH GEAR & PROTECTION	20	38	4
12BJ1A0208	R41024	POWER SYSTEM OPERATION & CONTROL	17	5	0
12BJ1A0208	R41026	INSTRUMENTATION	19	36	4
12BJ1A0208	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	14	0
12BJ1A0208	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	38	2
12BJ1A0208	R4102D	ELECTRICAL SIMULATION LAB	16	34	2
12BJ1A0209	R41021	COMPUTER ORGANIZATION	12	-1	0
12BJ1A0209	R41022	HIGH VOLTAGE ENGINEERING	18	-1	0
12BJ1A0209	R41023	SWITCH GEAR & PROTECTION	9	-1	0
12BJ1A0209	R41024	POWER SYSTEM OPERATION & CONTROL	16	-1	0
12BJ1A0209	R41026	INSTRUMENTATION	9	-1	0
12BJ1A0209	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	9	-1	0
12BJ1A0209	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	-1	0
12BJ1A0209	R4102D	ELECTRICAL SIMULATION LAB	16	-1	0
12BJ1A0210	R41021	COMPUTER ORGANIZATION	17	11	0
12BJ1A0210	R41022	HIGH VOLTAGE ENGINEERING	18	49	4
12BJ1A0210	R41023	SWITCH GEAR & PROTECTION	19	28	4
12BJ1A0210	R41024	POWER SYSTEM OPERATION & CONTROL	16	45	4
12BJ1A0210	R41026	INSTRUMENTATION	21	36	4
12BJ1A0210	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	44	4
12BJ1A0210	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	36	2
12BJ1A0210	R4102D	ELECTRICAL SIMULATION LAB	17	36	2
12BJ1A0211	R41021	COMPUTER ORGANIZATION	21	31	4
12BJ1A0211	R41022	HIGH VOLTAGE ENGINEERING	21	57	4
12BJ1A0211	R41023	SWITCH GEAR & PROTECTION	20	0	0
12BJ1A0211	R41024	POWER SYSTEM OPERATION & CONTROL	22	10	0
12BJ1A0211	R41026	INSTRUMENTATION	23	13	0
12BJ1A0211	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	46	4
12BJ1A0211	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	41	2
12BJ1A0211	R4102D	ELECTRICAL SIMULATION LAB	22	43	2
12BJ1A0212	R41021	COMPUTER ORGANIZATION	16	7	0
12BJ1A0212	R41022	HIGH VOLTAGE ENGINEERING	20	9	0
12BJ1A0212	R41023	SWITCH GEAR & PROTECTION	19	34	4
12BJ1A0212	R41024	POWER SYSTEM OPERATION & CONTROL	20	5	0
12BJ1A0212	R41026	INSTRUMENTATION	21	12	0
12BJ1A0212	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	10	0
12BJ1A0212	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	42	2
12BJ1A0212	R4102D	ELECTRICAL SIMULATION LAB	21	42	2
12BJ1A0214	R41021	COMPUTER ORGANIZATION	18	37	4
12BJ1A0214	R41022	HIGH VOLTAGE ENGINEERING	20	39	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0214	R41023	SWITCH GEAR & PROTECTION	20	35	4
12BJ1A0214	R41024	POWER SYSTEM OPERATION & CONTROL	16	13	0
12BJ1A0214	R41026	INSTRUMENTATION	19	39	4
12BJ1A0214	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	17	30	4
12BJ1A0214	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	17	45	2
12BJ1A0214	R4102D	ELECTRICAL SIMULATION LAB	22	45	2
12BJ1A0216	R41021	COMPUTER ORGANIZATION	15	9	0
12BJ1A0216	R41022	HIGH VOLTAGE ENGINEERING	19	56	4
12BJ1A0216	R41023	SWITCH GEAR & PROTECTION	20	28	4
12BJ1A0216	R41024	POWER SYSTEM OPERATION & CONTROL	19	33	4
12BJ1A0216	R41026	INSTRUMENTATION	23	28	4
12BJ1A0216	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	48	4
12BJ1A0216	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	47	2
12BJ1A0216	R4102D	ELECTRICAL SIMULATION LAB	18	36	2
12BJ1A0217	R41021	COMPUTER ORGANIZATION	0	-1	0
12BJ1A0217	R41022	HIGH VOLTAGE ENGINEERING	0	-1	0
12BJ1A0217	R41023	SWITCH GEAR & PROTECTION	0	-1	0
12BJ1A0217	R41024	POWER SYSTEM OPERATION & CONTROL	0	-1	0
12BJ1A0217	R41026	INSTRUMENTATION	0	-1	0
12BJ1A0217	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	0	-1	0
12BJ1A0217	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	0	-1	0
12BJ1A0217	R4102D	ELECTRICAL SIMULATION LAB	0	-1	0
12BJ1A0218	R41021	COMPUTER ORGANIZATION	17	2	0
12BJ1A0218	R41022	HIGH VOLTAGE ENGINEERING	25	0	0
12BJ1A0218	R41023	SWITCH GEAR & PROTECTION	21	0	0
12BJ1A0218	R41024	POWER SYSTEM OPERATION & CONTROL	24	0	0
12BJ1A0218	R41026	INSTRUMENTATION	21	2	0
12BJ1A0218	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	24	4	0
12BJ1A0218	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	44	2
12BJ1A0218	R4102D	ELECTRICAL SIMULATION LAB	22	43	2
12BJ1A0219	R41021	COMPUTER ORGANIZATION	18	34	4
12BJ1A0219	R41022	HIGH VOLTAGE ENGINEERING	21	38	4
12BJ1A0219	R41023	SWITCH GEAR & PROTECTION	16	33	4
12BJ1A0219	R41024	POWER SYSTEM OPERATION & CONTROL	17	35	4
12BJ1A0219	R41026	INSTRUMENTATION	19	29	4
12BJ1A0219	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	36	4
12BJ1A0219	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	17	43	2
12BJ1A0219	R4102D	ELECTRICAL SIMULATION LAB	21	40	2
12BJ1A0220	R41021	COMPUTER ORGANIZATION	16	1	0
12BJ1A0220	R41022	HIGH VOLTAGE ENGINEERING	19	33	4
12BJ1A0220	R41023	SWITCH GEAR & PROTECTION	20	30	4
12BJ1A0220	R41024	POWER SYSTEM OPERATION & CONTROL	22	39	4
12BJ1A0220	R41026	INSTRUMENTATION	19	8	0
12BJ1A0220	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	28	4
12BJ1A0220	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	44	2
12BJ1A0220	R4102D	ELECTRICAL SIMULATION LAB	19	42	2
12BJ1A0221	R41021	COMPUTER ORGANIZATION	18	34	4
12BJ1A0221	R41022	HIGH VOLTAGE ENGINEERING	16	28	4
12BJ1A0221	R41023	SWITCH GEAR & PROTECTION	18	26	4
12BJ1A0221	R41024	POWER SYSTEM OPERATION & CONTROL	18	38	4
12BJ1A0221	R41026	INSTRUMENTATION	20	12	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0221	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	40	4
12BJ1A0221	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	42	2
12BJ1A0221	R4102D	ELECTRICAL SIMULATION LAB	17	34	2
12BJ1A0223	R41021	COMPUTER ORGANIZATION	23	26	4
12BJ1A0223	R41022	HIGH VOLTAGE ENGINEERING	25	38	4
12BJ1A0223	R41023	SWITCH GEAR & PROTECTION	22	41	4
12BJ1A0223	R41024	POWER SYSTEM OPERATION & CONTROL	24	39	4
12BJ1A0223	R41026	INSTRUMENTATION	24	45	4
12BJ1A0223	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	23	48	4
12BJ1A0223	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	25	49	2
12BJ1A0223	R4102D	ELECTRICAL SIMULATION LAB	24	48	2
12BJ1A0224	R41021	COMPUTER ORGANIZATION	21	34	4
12BJ1A0224	R41022	HIGH VOLTAGE ENGINEERING	20	35	4
12BJ1A0224	R41023	SWITCH GEAR & PROTECTION	21	31	4
12BJ1A0224	R41024	POWER SYSTEM OPERATION & CONTROL	21	39	4
12BJ1A0224	R41026	INSTRUMENTATION	23	43	4
12BJ1A0224	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	23	34	4
12BJ1A0224	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	18	47	2
12BJ1A0224	R4102D	ELECTRICAL SIMULATION LAB	23	45	2
12BJ1A0225	R41021	COMPUTER ORGANIZATION	20	12	0
12BJ1A0225	R41022	HIGH VOLTAGE ENGINEERING	21	55	4
12BJ1A0225	R41023	SWITCH GEAR & PROTECTION	21	32	4
12BJ1A0225	R41024	POWER SYSTEM OPERATION & CONTROL	19	54	4
12BJ1A0225	R41026	INSTRUMENTATION	22	30	4
12BJ1A0225	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	28	4
12BJ1A0225	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	42	2
12BJ1A0225	R4102D	ELECTRICAL SIMULATION LAB	23	45	2
12BJ1A0226	R41021	COMPUTER ORGANIZATION	20	30	4
12BJ1A0226	R41022	HIGH VOLTAGE ENGINEERING	21	42	4
12BJ1A0226	R41023	SWITCH GEAR & PROTECTION	19	7	0
12BJ1A0226	R41024	POWER SYSTEM OPERATION & CONTROL	20	33	4
12BJ1A0226	R41026	INSTRUMENTATION	20	26	4
12BJ1A0226	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	55	4
12BJ1A0226	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	49	2
12BJ1A0226	R4102D	ELECTRICAL SIMULATION LAB	24	48	2
12BJ1A0227	R41021	COMPUTER ORGANIZATION	16	2	0
12BJ1A0227	R41022	HIGH VOLTAGE ENGINEERING	18	27	4
12BJ1A0227	R41023	SWITCH GEAR & PROTECTION	22	29	4
12BJ1A0227	R41024	POWER SYSTEM OPERATION & CONTROL	19	9	0
12BJ1A0227	R41026	INSTRUMENTATION	24	32	4
12BJ1A0227	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	6	0
12BJ1A0227	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	45	2
12BJ1A0227	R4102D	ELECTRICAL SIMULATION LAB	19	35	2
12BJ1A0228	R41021	COMPUTER ORGANIZATION	22	32	4
12BJ1A0228	R41022	HIGH VOLTAGE ENGINEERING	19	31	4
12BJ1A0228	R41023	SWITCH GEAR & PROTECTION	22	26	4
12BJ1A0228	R41024	POWER SYSTEM OPERATION & CONTROL	22	34	4
12BJ1A0228	R41026	INSTRUMENTATION	24	41	4
12BJ1A0228	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	32	4
12BJ1A0228	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	47	2
12BJ1A0228	R4102D	ELECTRICAL SIMULATION LAB	23	47	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0229	R41021	COMPUTER ORGANIZATION	15	8	0
12BJ1A0229	R41022	HIGH VOLTAGE ENGINEERING	21	39	4
12BJ1A0229	R41023	SWITCH GEAR & PROTECTION	19	10	0
12BJ1A0229	R41024	POWER SYSTEM OPERATION & CONTROL	19	44	4
12BJ1A0229	R41026	INSTRUMENTATION	18	31	4
12BJ1A0229	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	14	10	0
12BJ1A0229	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	40	2
12BJ1A0229	R4102D	ELECTRICAL SIMULATION LAB	20	39	2
12BJ1A0230	R41021	COMPUTER ORGANIZATION	15	26	4
12BJ1A0230	R41022	HIGH VOLTAGE ENGINEERING	22	31	4
12BJ1A0230	R41023	SWITCH GEAR & PROTECTION	17	7	0
12BJ1A0230	R41024	POWER SYSTEM OPERATION & CONTROL	21	10	0
12BJ1A0230	R41026	INSTRUMENTATION	23	13	0
12BJ1A0230	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	33	4
12BJ1A0230	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	19	43	2
12BJ1A0230	R4102D	ELECTRICAL SIMULATION LAB	20	42	2
12BJ1A0232	R41021	COMPUTER ORGANIZATION	21	14	0
12BJ1A0232	R41022	HIGH VOLTAGE ENGINEERING	23	8	0
12BJ1A0232	R41023	SWITCH GEAR & PROTECTION	22	29	4
12BJ1A0232	R41024	POWER SYSTEM OPERATION & CONTROL	22	0	0
12BJ1A0232	R41026	INSTRUMENTATION	22	32	4
12BJ1A0232	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	6	0
12BJ1A0232	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	44	2
12BJ1A0232	R4102D	ELECTRICAL SIMULATION LAB	22	40	2
12BJ1A0233	R41021	COMPUTER ORGANIZATION	23	38	4
12BJ1A0233	R41022	HIGH VOLTAGE ENGINEERING	20	40	4
12BJ1A0233	R41023	SWITCH GEAR & PROTECTION	22	12	0
12BJ1A0233	R41024	POWER SYSTEM OPERATION & CONTROL	21	34	4
12BJ1A0233	R41026	INSTRUMENTATION	22	66	4
12BJ1A0233	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	21	31	4
12BJ1A0233	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	47	2
12BJ1A0233	R4102D	ELECTRICAL SIMULATION LAB	24	49	2
12BJ1A0235	R41021	COMPUTER ORGANIZATION	21	26	4
12BJ1A0235	R41022	HIGH VOLTAGE ENGINEERING	25	55	4
12BJ1A0235	R41023	SWITCH GEAR & PROTECTION	22	36	4
12BJ1A0235	R41024	POWER SYSTEM OPERATION & CONTROL	22	49	4
12BJ1A0235	R41026	INSTRUMENTATION	24	35	4
12BJ1A0235	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	23	44	4
12BJ1A0235	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	44	2
12BJ1A0235	R4102D	ELECTRICAL SIMULATION LAB	22	49	2
12BJ1A0236	R41021	COMPUTER ORGANIZATION	19	43	4
12BJ1A0236	R41022	HIGH VOLTAGE ENGINEERING	21	37	4
12BJ1A0236	R41023	SWITCH GEAR & PROTECTION	19	10	0
12BJ1A0236	R41024	POWER SYSTEM OPERATION & CONTROL	21	27	4
12BJ1A0236	R41026	INSTRUMENTATION	20	14	0
12BJ1A0236	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	45	4
12BJ1A0236	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	42	2
12BJ1A0236	R4102D	ELECTRICAL SIMULATION LAB	21	40	2
12BJ1A0238	R41021	COMPUTER ORGANIZATION	15	0	0
12BJ1A0238	R41022	HIGH VOLTAGE ENGINEERING	15	0	0
12BJ1A0238	R41023	SWITCH GEAR & PROTECTION	20	7	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0238	R41024	POWER SYSTEM OPERATION & CONTROL	19	0	0
12BJ1A0238	R41026	INSTRUMENTATION	20	4	0
12BJ1A0238	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	19	-1	0
12BJ1A0238	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	38	2
12BJ1A0238	R4102D	ELECTRICAL SIMULATION LAB	16	36	2
12BJ1A0239	R41021	COMPUTER ORGANIZATION	22	39	4
12BJ1A0239	R41022	HIGH VOLTAGE ENGINEERING	20	36	4
12BJ1A0239	R41023	SWITCH GEAR & PROTECTION	20	16	0
12BJ1A0239	R41024	POWER SYSTEM OPERATION & CONTROL	24	26	4
12BJ1A0239	R41026	INSTRUMENTATION	22	49	4
12BJ1A0239	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	22	39	4
12BJ1A0239	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	22	40	2
12BJ1A0239	R4102D	ELECTRICAL SIMULATION LAB	19	38	2
12BJ1A0240	R41021	COMPUTER ORGANIZATION	16	-1	0
12BJ1A0240	R41022	HIGH VOLTAGE ENGINEERING	12	-1	0
12BJ1A0240	R41023	SWITCH GEAR & PROTECTION	18	-1	0
12BJ1A0240	R41024	POWER SYSTEM OPERATION & CONTROL	17	-1	0
12BJ1A0240	R41026	INSTRUMENTATION	9	-1	0
12BJ1A0240	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	9	-1	0
12BJ1A0240	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	-1	0
12BJ1A0240	R4102D	ELECTRICAL SIMULATION LAB	16	-1	0
12BJ1A0241	R41021	COMPUTER ORGANIZATION	14	26	4
12BJ1A0241	R41022	HIGH VOLTAGE ENGINEERING	15	48	4
12BJ1A0241	R41023	SWITCH GEAR & PROTECTION	16	4	0
12BJ1A0241	R41024	POWER SYSTEM OPERATION & CONTROL	21	4	0
12BJ1A0241	R41026	INSTRUMENTATION	16	13	0
12BJ1A0241	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	15	45	4
12BJ1A0241	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	38	2
12BJ1A0241	R4102D	ELECTRICAL SIMULATION LAB	17	36	2
12BJ1A0242	R41021	COMPUTER ORGANIZATION	14	1	0
12BJ1A0242	R41022	HIGH VOLTAGE ENGINEERING	18	0	0
12BJ1A0242	R41023	SWITCH GEAR & PROTECTION	19	7	0
12BJ1A0242	R41024	POWER SYSTEM OPERATION & CONTROL	22	0	0
12BJ1A0242	R41026	INSTRUMENTATION	23	6	0
12BJ1A0242	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	15	4	0
12BJ1A0242	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	21	45	2
12BJ1A0242	R4102D	ELECTRICAL SIMULATION LAB	16	37	2
12BJ1A0243	R41021	COMPUTER ORGANIZATION	9	-1	0
12BJ1A0243	R41022	HIGH VOLTAGE ENGINEERING	9	-1	0
12BJ1A0243	R41023	SWITCH GEAR & PROTECTION	9	-1	0
12BJ1A0243	R41024	POWER SYSTEM OPERATION & CONTROL	9	-1	0
12BJ1A0243	R41026	INSTRUMENTATION	9	-1	0
12BJ1A0243	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	9	-1	0
12BJ1A0243	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	-1	0
12BJ1A0243	R4102D	ELECTRICAL SIMULATION LAB	15	-1	0
12BJ1A0244	R41021	COMPUTER ORGANIZATION	14	2	0
12BJ1A0244	R41022	HIGH VOLTAGE ENGINEERING	16	49	4
12BJ1A0244	R41023	SWITCH GEAR & PROTECTION	15	5	0
12BJ1A0244	R41024	POWER SYSTEM OPERATION & CONTROL	14	36	4
12BJ1A0244	R41026	INSTRUMENTATION	16	13	0
12BJ1A0244	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	15	-1	0



Htno	Subcode	Subname	Internal	External	credits
12BJ1A0244	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	16	46	2
12BJ1A0244	R4102D	ELECTRICAL SIMULATION LAB	16	38	2
12BJ1A0245	R41021	COMPUTER ORGANIZATION	17	38	4
12BJ1A0245	R41022	HIGH VOLTAGE ENGINEERING	20	47	4
12BJ1A0245	R41023	SWITCH GEAR & PROTECTION	16	6	0
12BJ1A0245	R41024	POWER SYSTEM OPERATION & CONTROL	18	9	0
12BJ1A0245	R41026	INSTRUMENTATION	18	34	4
12BJ1A0245	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	24	60	4
12BJ1A0245	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	24	47	2
12BJ1A0245	R4102D	ELECTRICAL SIMULATION LAB	22	42	2
12BJ1A0246	R41021	COMPUTER ORGANIZATION	18	15	0
12BJ1A0246	R41022	HIGH VOLTAGE ENGINEERING	22	15	0
12BJ1A0246	R41023	SWITCH GEAR & PROTECTION	20	29	4
12BJ1A0246	R41024	POWER SYSTEM OPERATION & CONTROL	22	8	0
12BJ1A0246	R41026	INSTRUMENTATION	23	35	4
12BJ1A0246	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	24	26	4
12BJ1A0246	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	18	42	2
12BJ1A0246	R4102D	ELECTRICAL SIMULATION LAB	21	44	2
12BJ1A0301	R41031	REFRIGERATION & AIR CONDITIONING	19	41	4
12BJ1A0301	R41032	CAD/CAM	16	26	4
12BJ1A0301	R41033	ALTERNATIVE SOURCES OF ENERGY	20	32	4
12BJ1A0301	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	32	4
12BJ1A0301	R41035	MEMS	18	26	4
12BJ1A0301	R41037	AUTOMOBILE ENGINEERING	22	30	4
12BJ1A0301	R4103B	SIMULATION LAB	23	49	2
12BJ1A0301	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	46	2
12BJ1A0302	R41031	REFRIGERATION & AIR CONDITIONING	22	48	4
12BJ1A0302	R41032	CAD/CAM	22	27	4
12BJ1A0302	R41033	ALTERNATIVE SOURCES OF ENERGY	20	54	4
12BJ1A0302	R41034	UNCONVENTIONAL MACHINING PROCESSES	24	41	4
12BJ1A0302	R41035	MEMS	24	42	4
12BJ1A0302	R41037	AUTOMOBILE ENGINEERING	24	42	4
12BJ1A0302	R4103B	SIMULATION LAB	24	48	2
12BJ1A0302	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	46	2
12BJ1A0303	R41031	REFRIGERATION & AIR CONDITIONING	22	34	4
12BJ1A0303	R41032	CAD/CAM	21	41	4
12BJ1A0303	R41033	ALTERNATIVE SOURCES OF ENERGY	22	33	4
12BJ1A0303	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	40	4
12BJ1A0303	R41035	MEMS	23	36	4
12BJ1A0303	R41037	AUTOMOBILE ENGINEERING	23	58	4
12BJ1A0303	R4103B	SIMULATION LAB	24	49	2
12BJ1A0303	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	45	2
12BJ1A0304	R41031	REFRIGERATION & AIR CONDITIONING	15	26	4
12BJ1A0304	R41032	CAD/CAM	16	41	4
12BJ1A0304	R41033	ALTERNATIVE SOURCES OF ENERGY	17	29	4
12BJ1A0304	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	30	4
12BJ1A0304	R41035	MEMS	18	39	4
12BJ1A0304	R41037	AUTOMOBILE ENGINEERING	17	26	4
12BJ1A0304	R4103B	SIMULATION LAB	23	46	2
12BJ1A0304	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
12BJ1A0305	R41031	REFRIGERATION & AIR CONDITIONING	19	69	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0305	R41032	CAD/CAM	18	45	4
12BJ1A0305	R41033	ALTERNATIVE SOURCES OF ENERGY	22	49	4
12BJ1A0305	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	33	4
12BJ1A0305	R41035	MEMS	24	32	4
12BJ1A0305	R41037	AUTOMOBILE ENGINEERING	24	48	4
12BJ1A0305	R4103B	SIMULATION LAB	23	49	2
12BJ1A0305	R4103C	ADVANCED COMMUNICATION SKILLS LAB	25	47	2
12BJ1A0306	R41031	REFRIGERATION & AIR CONDITIONING	19	15	0
12BJ1A0306	R41032	CAD/CAM	18	4	0
12BJ1A0306	R41033	ALTERNATIVE SOURCES OF ENERGY	15	55	4
12BJ1A0306	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	26	4
12BJ1A0306	R41035	MEMS	19	26	4
12BJ1A0306	R41037	AUTOMOBILE ENGINEERING	19	14	0
12BJ1A0306	R4103B	SIMULATION LAB	24	47	2
12BJ1A0306	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	45	2
12BJ1A0307	R41031	REFRIGERATION & AIR CONDITIONING	0	-1	0
12BJ1A0307	R41032	CAD/CAM	15	-1	0
12BJ1A0307	R41033	ALTERNATIVE SOURCES OF ENERGY	2	-1	0
12BJ1A0307	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	-1	0
12BJ1A0307	R41035	MEMS	0	-1	0
12BJ1A0307	R41037	AUTOMOBILE ENGINEERING	0	-1	0
12BJ1A0307	R4103B	SIMULATION LAB	24	44	2
12BJ1A0307	R4103C	ADVANCED COMMUNICATION SKILLS LAB	18	44	2
12BJ1A0308	R41031	REFRIGERATION & AIR CONDITIONING	24	13	0
12BJ1A0308	R41032	CAD/CAM	21	47	4
12BJ1A0308	R41033	ALTERNATIVE SOURCES OF ENERGY	19	31	4
12BJ1A0308	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	34	4
12BJ1A0308	R41035	MEMS	23	37	4
12BJ1A0308	R41037	AUTOMOBILE ENGINEERING	16	31	4
12BJ1A0308	R4103B	SIMULATION LAB	24	49	2
12BJ1A0308	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	46	2
12BJ1A0309	R41031	REFRIGERATION & AIR CONDITIONING	18	32	4
12BJ1A0309	R41032	CAD/CAM	14	11	0
12BJ1A0309	R41033	ALTERNATIVE SOURCES OF ENERGY	20	15	0
12BJ1A0309	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	7	0
12BJ1A0309	R41035	MEMS	14	3	0
12BJ1A0309	R41037	AUTOMOBILE ENGINEERING	17	0	0
12BJ1A0309	R4103B	SIMULATION LAB	23	45	2
12BJ1A0309	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	47	2
12BJ1A0310	R41031	REFRIGERATION & AIR CONDITIONING	23	36	4
12BJ1A0310	R41032	CAD/CAM	21	9	0
12BJ1A0310	R41033	ALTERNATIVE SOURCES OF ENERGY	21	52	4
12BJ1A0310	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	30	4
12BJ1A0310	R41035	MEMS	25	32	4
12BJ1A0310	R41037	AUTOMOBILE ENGINEERING	23	33	4
12BJ1A0310	R4103B	SIMULATION LAB	24	49	2
12BJ1A0310	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	45	2
12BJ1A0311	R41031	REFRIGERATION & AIR CONDITIONING	21	26	4
12BJ1A0311	R41032	CAD/CAM	16	32	4
12BJ1A0311	R41033	ALTERNATIVE SOURCES OF ENERGY	20	13	0
12BJ1A0311	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	35	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0311	R41035	MEMS	15	17	0
12BJ1A0311	R41037	AUTOMOBILE ENGINEERING	19	46	4
12BJ1A0311	R4103B	SIMULATION LAB	23	46	2
12BJ1A0311	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	43	2
12BJ1A0312	R41031	REFRIGERATION & AIR CONDITIONING	21	26	4
12BJ1A0312	R41032	CAD/CAM	17	32	4
12BJ1A0312	R41033	ALTERNATIVE SOURCES OF ENERGY	23	26	4
12BJ1A0312	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	31	4
12BJ1A0312	R41035	MEMS	12	33	4
12BJ1A0312	R41037	AUTOMOBILE ENGINEERING	19	0	0
12BJ1A0312	R4103B	SIMULATION LAB	24	46	2
12BJ1A0312	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	47	2
12BJ1A0313	R41031	REFRIGERATION & AIR CONDITIONING	13	55	4
12BJ1A0313	R41032	CAD/CAM	17	30	4
12BJ1A0313	R41033	ALTERNATIVE SOURCES OF ENERGY	19	26	4
12BJ1A0313	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	33	4
12BJ1A0313	R41035	MEMS	21	17	0
12BJ1A0313	R41037	AUTOMOBILE ENGINEERING	21	12	0
12BJ1A0313	R4103B	SIMULATION LAB	23	44	2
12BJ1A0313	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0314	R41031	REFRIGERATION & AIR CONDITIONING	0	-1	0
12BJ1A0314	R41032	CAD/CAM	0	-1	0
12BJ1A0314	R41033	ALTERNATIVE SOURCES OF ENERGY	0	-1	0
12BJ1A0314	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	-1	0
12BJ1A0314	R41035	MEMS	0	-1	0
12BJ1A0314	R41037	AUTOMOBILE ENGINEERING	0	-1	0
12BJ1A0314	R4103B	SIMULATION LAB	23	-1	0
12BJ1A0314	R4103C	ADVANCED COMMUNICATION SKILLS LAB	18	-1	0
12BJ1A0315	R41031	REFRIGERATION & AIR CONDITIONING	19	54	4
12BJ1A0315	R41032	CAD/CAM	15	40	4
12BJ1A0315	R41033	ALTERNATIVE SOURCES OF ENERGY	18	26	4
12BJ1A0315	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	49	4
12BJ1A0315	R41035	MEMS	24	42	4
12BJ1A0315	R41037	AUTOMOBILE ENGINEERING	20	55	4
12BJ1A0315	R4103B	SIMULATION LAB	23	49	2
12BJ1A0315	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	48	2
12BJ1A0316	R41031	REFRIGERATION & AIR CONDITIONING	23	26	4
12BJ1A0316	R41032	CAD/CAM	20	40	4
12BJ1A0316	R41033	ALTERNATIVE SOURCES OF ENERGY	23	26	4
12BJ1A0316	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	27	4
12BJ1A0316	R41035	MEMS	22	31	4
12BJ1A0316	R41037	AUTOMOBILE ENGINEERING	19	36	4
12BJ1A0316	R4103B	SIMULATION LAB	24	47	2
12BJ1A0316	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	49	2
12BJ1A0317	R41031	REFRIGERATION & AIR CONDITIONING	17	40	4
12BJ1A0317	R41032	CAD/CAM	14	40	4
12BJ1A0317	R41033	ALTERNATIVE SOURCES OF ENERGY	17	42	4
12BJ1A0317	R41034	UNCONVENTIONAL MACHINING PROCESSES	24	45	4
12BJ1A0317	R41035	MEMS	19	41	4
12BJ1A0317	R41037	AUTOMOBILE ENGINEERING	19	36	4
12BJ1A0317	R4103B	SIMULATION LAB	24	48	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0317	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	45	2
12BJ1A0318	R41031	REFRIGERATION & AIR CONDITIONING	21	36	4
12BJ1A0318	R41032	CAD/CAM	18	11	0
12BJ1A0318	R41033	ALTERNATIVE SOURCES OF ENERGY	21	36	4
12BJ1A0318	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	40	4
12BJ1A0318	R41035	MEMS	23	48	4
12BJ1A0318	R41037	AUTOMOBILE ENGINEERING	21	39	4
12BJ1A0318	R4103B	SIMULATION LAB	24	47	2
12BJ1A0318	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	45	2
12BJ1A0319	R41031	REFRIGERATION & AIR CONDITIONING	12	3	0
12BJ1A0319	R41032	CAD/CAM	15	2	0
12BJ1A0319	R41033	ALTERNATIVE SOURCES OF ENERGY	6	8	0
12BJ1A0319	R41034	UNCONVENTIONAL MACHINING PROCESSES	5	1	0
12BJ1A0319	R41035	MEMS	6	0	0
12BJ1A0319	R41037	AUTOMOBILE ENGINEERING	2	-1	0
12BJ1A0319	R4103B	SIMULATION LAB	23	44	2
12BJ1A0319	R4103C	ADVANCED COMMUNICATION SKILLS LAB	18	44	2
12BJ1A0320	R41031	REFRIGERATION & AIR CONDITIONING	15	3	0
12BJ1A0320	R41032	CAD/CAM	16	16	0
12BJ1A0320	R41033	ALTERNATIVE SOURCES OF ENERGY	13	8	0
12BJ1A0320	R41034	UNCONVENTIONAL MACHINING PROCESSES	14	6	0
12BJ1A0320	R41035	MEMS	18	12	0
12BJ1A0320	R41037	AUTOMOBILE ENGINEERING	16	0	0
12BJ1A0320	R4103B	SIMULATION LAB	23	44	2
12BJ1A0320	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	44	2
12BJ1A0321	R41031	REFRIGERATION & AIR CONDITIONING	21	33	4
12BJ1A0321	R41032	CAD/CAM	19	47	4
12BJ1A0321	R41033	ALTERNATIVE SOURCES OF ENERGY	21	39	4
12BJ1A0321	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	29	4
12BJ1A0321	R41035	MEMS	22	32	4
12BJ1A0321	R41037	AUTOMOBILE ENGINEERING	21	26	4
12BJ1A0321	R4103B	SIMULATION LAB	24	47	2
12BJ1A0321	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	43	2
12BJ1A0322	R41031	REFRIGERATION & AIR CONDITIONING	13	0	0
12BJ1A0322	R41032	CAD/CAM	16	0	0
12BJ1A0322	R41033	ALTERNATIVE SOURCES OF ENERGY	18	4	0
12BJ1A0322	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	6	0
12BJ1A0322	R41035	MEMS	15	0	0
12BJ1A0322	R41037	AUTOMOBILE ENGINEERING	14	2	0
12BJ1A0322	R4103B	SIMULATION LAB	24	45	2
12BJ1A0322	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	43	2
12BJ1A0323	R41031	REFRIGERATION & AIR CONDITIONING	19	41	4
12BJ1A0323	R41032	CAD/CAM	18	15	0
12BJ1A0323	R41033	ALTERNATIVE SOURCES OF ENERGY	14	26	4
12BJ1A0323	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	27	4
12BJ1A0323	R41035	MEMS	19	38	4
12BJ1A0323	R41037	AUTOMOBILE ENGINEERING	18	60	4
12BJ1A0323	R4103B	SIMULATION LAB	24	47	2
12BJ1A0323	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
12BJ1A0324	R41031	REFRIGERATION & AIR CONDITIONING	18	41	4
12BJ1A0324	R41032	CAD/CAM	15	37	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0324	R41033	ALTERNATIVE SOURCES OF ENERGY	10	30	4
12BJ1A0324	R41034	UNCONVENTIONAL MACHINING PROCESSES	24	48	4
12BJ1A0324	R41035	MEMS	18	35	4
12BJ1A0324	R41037	AUTOMOBILE ENGINEERING	22	32	4
12BJ1A0324	R4103B	SIMULATION LAB	24	48	2
12BJ1A0324	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	45	2
12BJ1A0325	R41031	REFRIGERATION & AIR CONDITIONING	23	33	4
12BJ1A0325	R41032	CAD/CAM	20	41	4
12BJ1A0325	R41033	ALTERNATIVE SOURCES OF ENERGY	20	30	4
12BJ1A0325	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	28	4
12BJ1A0325	R41035	MEMS	19	31	4
12BJ1A0325	R41037	AUTOMOBILE ENGINEERING	20	26	4
12BJ1A0325	R4103B	SIMULATION LAB	23	47	2
12BJ1A0325	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	43	2
12BJ1A0326	R41031	REFRIGERATION & AIR CONDITIONING	21	38	4
12BJ1A0326	R41032	CAD/CAM	21	5	0
12BJ1A0326	R41033	ALTERNATIVE SOURCES OF ENERGY	22	46	4
12BJ1A0326	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	47	4
12BJ1A0326	R41035	MEMS	24	34	4
12BJ1A0326	R41037	AUTOMOBILE ENGINEERING	24	41	4
12BJ1A0326	R4103B	SIMULATION LAB	24	49	2
12BJ1A0326	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	46	2
12BJ1A0327	R41031	REFRIGERATION & AIR CONDITIONING	17	45	4
12BJ1A0327	R41032	CAD/CAM	21	32	4
12BJ1A0327	R41033	ALTERNATIVE SOURCES OF ENERGY	20	36	4
12BJ1A0327	R41034	UNCONVENTIONAL MACHINING PROCESSES	24	39	4
12BJ1A0327	R41035	MEMS	20	38	4
12BJ1A0327	R41037	AUTOMOBILE ENGINEERING	21	33	4
12BJ1A0327	R4103B	SIMULATION LAB	24	47	2
12BJ1A0327	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	49	2
12BJ1A0328	R41031	REFRIGERATION & AIR CONDITIONING	21	33	4
12BJ1A0328	R41032	CAD/CAM	17	29	4
12BJ1A0328	R41033	ALTERNATIVE SOURCES OF ENERGY	20	20	0
12BJ1A0328	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	26	4
12BJ1A0328	R41035	MEMS	23	37	4
12BJ1A0328	R41037	AUTOMOBILE ENGINEERING	20	26	4
12BJ1A0328	R4103B	SIMULATION LAB	23	47	2
12BJ1A0328	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	50	2
12BJ1A0329	R41031	REFRIGERATION & AIR CONDITIONING	20	36	4
12BJ1A0329	R41032	CAD/CAM	20	44	4
12BJ1A0329	R41033	ALTERNATIVE SOURCES OF ENERGY	19	34	4
12BJ1A0329	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	27	4
12BJ1A0329	R41035	MEMS	23	30	4
12BJ1A0329	R41037	AUTOMOBILE ENGINEERING	21	30	4
12BJ1A0329	R4103B	SIMULATION LAB	23	44	2
12BJ1A0329	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	48	2
12BJ1A0330	R41031	REFRIGERATION & AIR CONDITIONING	22	36	4
12BJ1A0330	R41032	CAD/CAM	17	26	4
12BJ1A0330	R41033	ALTERNATIVE SOURCES OF ENERGY	24	47	4
12BJ1A0330	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	33	4
12BJ1A0330	R41035	MEMS	24	29	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0330	R41037	AUTOMOBILE ENGINEERING	18	30	4
12BJ1A0330	R4103B	SIMULATION LAB	24	47	2
12BJ1A0330	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	43	2
12BJ1A0331	R41031	REFRIGERATION & AIR CONDITIONING	16	26	4
12BJ1A0331	R41032	CAD/CAM	22	14	0
12BJ1A0331	R41033	ALTERNATIVE SOURCES OF ENERGY	21	13	0
12BJ1A0331	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	30	4
12BJ1A0331	R41035	MEMS	23	16	0
12BJ1A0331	R41037	AUTOMOBILE ENGINEERING	21	-1	0
12BJ1A0331	R4103B	SIMULATION LAB	24	46	2
12BJ1A0331	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	50	2
12BJ1A0332	R41031	REFRIGERATION & AIR CONDITIONING	20	32	4
12BJ1A0332	R41032	CAD/CAM	19	31	4
12BJ1A0332	R41033	ALTERNATIVE SOURCES OF ENERGY	18	26	4
12BJ1A0332	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	33	4
12BJ1A0332	R41035	MEMS	21	41	4
12BJ1A0332	R41037	AUTOMOBILE ENGINEERING	20	34	4
12BJ1A0332	R4103B	SIMULATION LAB	23	48	2
12BJ1A0332	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	43	2
12BJ1A0333	R41031	REFRIGERATION & AIR CONDITIONING	17	33	4
12BJ1A0333	R41032	CAD/CAM	17	45	4
12BJ1A0333	R41033	ALTERNATIVE SOURCES OF ENERGY	18	30	4
12BJ1A0333	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	33	4
12BJ1A0333	R41035	MEMS	25	26	4
12BJ1A0333	R41037	AUTOMOBILE ENGINEERING	15	36	4
12BJ1A0333	R4103B	SIMULATION LAB	23	45	2
12BJ1A0333	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
12BJ1A0334	R41031	REFRIGERATION & AIR CONDITIONING	22	36	4
12BJ1A0334	R41032	CAD/CAM	17	6	0
12BJ1A0334	R41033	ALTERNATIVE SOURCES OF ENERGY	22	41	4
12BJ1A0334	R41034	UNCONVENTIONAL MACHINING PROCESSES	25	36	4
12BJ1A0334	R41035	MEMS	19	26	4
12BJ1A0334	R41037	AUTOMOBILE ENGINEERING	21	30	4
12BJ1A0334	R4103B	SIMULATION LAB	23	46	2
12BJ1A0334	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	48	2
12BJ1A0336	R41031	REFRIGERATION & AIR CONDITIONING	19	49	4
12BJ1A0336	R41032	CAD/CAM	19	41	4
12BJ1A0336	R41033	ALTERNATIVE SOURCES OF ENERGY	16	30	4
12BJ1A0336	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	41	4
12BJ1A0336	R41035	MEMS	23	29	4
12BJ1A0336	R41037	AUTOMOBILE ENGINEERING	19	54	4
12BJ1A0336	R4103B	SIMULATION LAB	23	49	2
12BJ1A0336	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	50	2
12BJ1A0337	R41031	REFRIGERATION & AIR CONDITIONING	22	10	0
12BJ1A0337	R41032	CAD/CAM	19	34	4
12BJ1A0337	R41033	ALTERNATIVE SOURCES OF ENERGY	23	10	0
12BJ1A0337	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	28	4
12BJ1A0337	R41035	MEMS	24	45	4
12BJ1A0337	R41037	AUTOMOBILE ENGINEERING	21	26	4
12BJ1A0337	R4103B	SIMULATION LAB	24	47	2
12BJ1A0337	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	48	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0338	R41031	REFRIGERATION & AIR CONDITIONING	22	41	4
12BJ1A0338	R41032	CAD/CAM	18	47	4
12BJ1A0338	R41033	ALTERNATIVE SOURCES OF ENERGY	16	37	4
12BJ1A0338	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	29	4
12BJ1A0338	R41035	MEMS	23	31	4
12BJ1A0338	R41037	AUTOMOBILE ENGINEERING	23	26	4
12BJ1A0338	R4103B	SIMULATION LAB	24	50	2
12BJ1A0338	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	46	2
12BJ1A0339	R41031	REFRIGERATION & AIR CONDITIONING	14	2	0
12BJ1A0339	R41032	CAD/CAM	16	26	4
12BJ1A0339	R41033	ALTERNATIVE SOURCES OF ENERGY	17	33	4
12BJ1A0339	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	37	4
12BJ1A0339	R41035	MEMS	21	15	0
12BJ1A0339	R41037	AUTOMOBILE ENGINEERING	16	13	0
12BJ1A0339	R4103B	SIMULATION LAB	23	44	2
12BJ1A0339	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	45	2
12BJ1A0340	R41031	REFRIGERATION & AIR CONDITIONING	10	8	0
12BJ1A0340	R41032	CAD/CAM	15	10	0
12BJ1A0340	R41033	ALTERNATIVE SOURCES OF ENERGY	5	0	0
12BJ1A0340	R41034	UNCONVENTIONAL MACHINING PROCESSES	14	4	0
12BJ1A0340	R41035	MEMS	16	6	0
12BJ1A0340	R41037	AUTOMOBILE ENGINEERING	15	-1	0
12BJ1A0340	R4103B	SIMULATION LAB	24	44	2
12BJ1A0340	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0341	R41031	REFRIGERATION & AIR CONDITIONING	18	15	0
12BJ1A0341	R41032	CAD/CAM	17	18	0
12BJ1A0341	R41033	ALTERNATIVE SOURCES OF ENERGY	19	10	0
12BJ1A0341	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	28	4
12BJ1A0341	R41035	MEMS	21	15	0
12BJ1A0341	R41037	AUTOMOBILE ENGINEERING	20	11	0
12BJ1A0341	R4103B	SIMULATION LAB	24	47	2
12BJ1A0341	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
12BJ1A0342	R41031	REFRIGERATION & AIR CONDITIONING	20	44	4
12BJ1A0342	R41032	CAD/CAM	14	41	4
12BJ1A0342	R41033	ALTERNATIVE SOURCES OF ENERGY	20	37	4
12BJ1A0342	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	28	4
12BJ1A0342	R41035	MEMS	16	28	4
12BJ1A0342	R41037	AUTOMOBILE ENGINEERING	21	38	4
12BJ1A0342	R4103B	SIMULATION LAB	23	48	2
12BJ1A0342	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	49	2
12BJ1A0343	R41031	REFRIGERATION & AIR CONDITIONING	14	33	4
12BJ1A0343	R41032	CAD/CAM	16	1	0
12BJ1A0343	R41033	ALTERNATIVE SOURCES OF ENERGY	17	46	4
12BJ1A0343	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	10	0
12BJ1A0343	R41035	MEMS	19	26	4
12BJ1A0343	R41037	AUTOMOBILE ENGINEERING	16	2	0
12BJ1A0343	R4103B	SIMULATION LAB	24	46	2
12BJ1A0343	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
12BJ1A0344	R41031	REFRIGERATION & AIR CONDITIONING	24	35	4
12BJ1A0344	R41032	CAD/CAM	21	32	4
12BJ1A0344	R41033	ALTERNATIVE SOURCES OF ENERGY	23	45	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0344	R41034	UNCONVENTIONAL MACHINING PROCESSES	25	42	4
12BJ1A0344	R41035	MEMS	25	42	4
12BJ1A0344	R41037	AUTOMOBILE ENGINEERING	23	57	4
12BJ1A0344	R4103B	SIMULATION LAB	24	49	2
12BJ1A0344	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	44	2
12BJ1A0345	R41031	REFRIGERATION & AIR CONDITIONING	20	6	0
12BJ1A0345	R41032	CAD/CAM	19	41	4
12BJ1A0345	R41033	ALTERNATIVE SOURCES OF ENERGY	17	15	0
12BJ1A0345	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	28	4
12BJ1A0345	R41035	MEMS	21	41	4
12BJ1A0345	R41037	AUTOMOBILE ENGINEERING	19	26	4
12BJ1A0345	R4103B	SIMULATION LAB	24	47	2
12BJ1A0345	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0346	R41031	REFRIGERATION & AIR CONDITIONING	19	37	4
12BJ1A0346	R41032	CAD/CAM	20	37	4
12BJ1A0346	R41033	ALTERNATIVE SOURCES OF ENERGY	22	31	4
12BJ1A0346	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	30	4
12BJ1A0346	R41035	MEMS	19	26	4
12BJ1A0346	R41037	AUTOMOBILE ENGINEERING	21	30	4
12BJ1A0346	R4103B	SIMULATION LAB	24	47	2
12BJ1A0346	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	50	2
12BJ1A0347	R41031	REFRIGERATION & AIR CONDITIONING	12	8	0
12BJ1A0347	R41032	CAD/CAM	17	0	0
12BJ1A0347	R41033	ALTERNATIVE SOURCES OF ENERGY	17	28	4
12BJ1A0347	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	31	4
12BJ1A0347	R41035	MEMS	19	15	0
12BJ1A0347	R41037	AUTOMOBILE ENGINEERING	19	5	0
12BJ1A0347	R4103B	SIMULATION LAB	23	44	2
12BJ1A0347	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
12BJ1A0348	R41031	REFRIGERATION & AIR CONDITIONING	15	45	4
12BJ1A0348	R41032	CAD/CAM	16	32	4
12BJ1A0348	R41033	ALTERNATIVE SOURCES OF ENERGY	17	36	4
12BJ1A0348	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	37	4
12BJ1A0348	R41035	MEMS	19	42	4
12BJ1A0348	R41037	AUTOMOBILE ENGINEERING	20	39	4
12BJ1A0348	R4103B	SIMULATION LAB	23	46	2
12BJ1A0348	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	50	2
12BJ1A0349	R41031	REFRIGERATION & AIR CONDITIONING	16	32	4
12BJ1A0349	R41032	CAD/CAM	19	38	4
12BJ1A0349	R41033	ALTERNATIVE SOURCES OF ENERGY	20	2	0
12BJ1A0349	R41034	UNCONVENTIONAL MACHINING PROCESSES	15	29	4
12BJ1A0349	R41035	MEMS	22	0	0
12BJ1A0349	R41037	AUTOMOBILE ENGINEERING	19	6	0
12BJ1A0349	R4103B	SIMULATION LAB	24	44	2
12BJ1A0349	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	47	2
12BJ1A0350	R41031	REFRIGERATION & AIR CONDITIONING	18	45	4
12BJ1A0350	R41032	CAD/CAM	22	34	4
12BJ1A0350	R41033	ALTERNATIVE SOURCES OF ENERGY	21	38	4
12BJ1A0350	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	40	4
12BJ1A0350	R41035	MEMS	18	28	4
12BJ1A0350	R41037	AUTOMOBILE ENGINEERING	24	31	4



Htno	Subcode	Subname	Internal	External	credits
12BJ1A0350	R4103B	SIMULATION LAB	23	46	2
12BJ1A0350	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	49	2
12BJ1A0351	R41031	REFRIGERATION & AIR CONDITIONING	18	44	4
12BJ1A0351	R41032	CAD/CAM	18	39	4
12BJ1A0351	R41033	ALTERNATIVE SOURCES OF ENERGY	21	52	4
12BJ1A0351	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	53	4
12BJ1A0351	R41035	MEMS	25	48	4
12BJ1A0351	R41037	AUTOMOBILE ENGINEERING	23	48	4
12BJ1A0351	R4103B	SIMULATION LAB	23	48	2
12BJ1A0351	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	44	2
12BJ1A0352	R41031	REFRIGERATION & AIR CONDITIONING	21	33	4
12BJ1A0352	R41032	CAD/CAM	19	30	4
12BJ1A0352	R41033	ALTERNATIVE SOURCES OF ENERGY	20	31	4
12BJ1A0352	R41034	UNCONVENTIONAL MACHINING PROCESSES	24	52	4
12BJ1A0352	R41035	MEMS	20	10	0
12BJ1A0352	R41037	AUTOMOBILE ENGINEERING	21	53	4
12BJ1A0352	R4103B	SIMULATION LAB	23	46	2
12BJ1A0352	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	42	2
12BJ1A0353	R41031	REFRIGERATION & AIR CONDITIONING	19	26	4
12BJ1A0353	R41032	CAD/CAM	15	42	4
12BJ1A0353	R41033	ALTERNATIVE SOURCES OF ENERGY	21	26	4
12BJ1A0353	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	19	0
12BJ1A0353	R41035	MEMS	19	9	0
12BJ1A0353	R41037	AUTOMOBILE ENGINEERING	20	27	4
12BJ1A0353	R4103B	SIMULATION LAB	24	45	2
12BJ1A0353	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
12BJ1A0354	R41031	REFRIGERATION & AIR CONDITIONING	14	35	4
12BJ1A0354	R41032	CAD/CAM	19	43	4
12BJ1A0354	R41033	ALTERNATIVE SOURCES OF ENERGY	17	31	4
12BJ1A0354	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	27	4
12BJ1A0354	R41035	MEMS	17	31	4
12BJ1A0354	R41037	AUTOMOBILE ENGINEERING	20	26	4
12BJ1A0354	R4103B	SIMULATION LAB	23	46	2
12BJ1A0354	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	49	2
12BJ1A0355	R41031	REFRIGERATION & AIR CONDITIONING	18	36	4
12BJ1A0355	R41032	CAD/CAM	18	39	4
12BJ1A0355	R41033	ALTERNATIVE SOURCES OF ENERGY	19	51	4
12BJ1A0355	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	47	4
12BJ1A0355	R41035	MEMS	23	48	4
12BJ1A0355	R41037	AUTOMOBILE ENGINEERING	22	51	4
12BJ1A0355	R4103B	SIMULATION LAB	23	48	2
12BJ1A0355	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	42	2
12BJ1A0356	R41031	REFRIGERATION & AIR CONDITIONING	20	37	4
12BJ1A0356	R41032	CAD/CAM	23	33	4
12BJ1A0356	R41033	ALTERNATIVE SOURCES OF ENERGY	20	33	4
12BJ1A0356	R41034	UNCONVENTIONAL MACHINING PROCESSES	25	49	4
12BJ1A0356	R41035	MEMS	24	29	4
12BJ1A0356	R41037	AUTOMOBILE ENGINEERING	20	65	4
12BJ1A0356	R4103B	SIMULATION LAB	24	49	2
12BJ1A0356	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	45	2
12BJ1A0357	R41031	REFRIGERATION & AIR CONDITIONING	24	32	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0357	R41032	CAD/CAM	22	59	4
12BJ1A0357	R41033	ALTERNATIVE SOURCES OF ENERGY	25	34	4
12BJ1A0357	R41034	UNCONVENTIONAL MACHINING PROCESSES	25	41	4
12BJ1A0357	R41035	MEMS	25	6	0
12BJ1A0357	R41037	AUTOMOBILE ENGINEERING	21	18	0
12BJ1A0357	R4103B	SIMULATION LAB	23	50	2
12BJ1A0357	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	50	2
12BJ1A0358	R41031	REFRIGERATION & AIR CONDITIONING	13	43	4
12BJ1A0358	R41032	CAD/CAM	16	12	0
12BJ1A0358	R41033	ALTERNATIVE SOURCES OF ENERGY	16	2	0
12BJ1A0358	R41034	UNCONVENTIONAL MACHINING PROCESSES	14	7	0
12BJ1A0358	R41035	MEMS	22	26	4
12BJ1A0358	R41037	AUTOMOBILE ENGINEERING	14	16	0
12BJ1A0358	R4103B	SIMULATION LAB	23	47	2
12BJ1A0358	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	43	2
12BJ1A0359	R41031	REFRIGERATION & AIR CONDITIONING	16	38	4
12BJ1A0359	R41032	CAD/CAM	21	32	4
12BJ1A0359	R41033	ALTERNATIVE SOURCES OF ENERGY	20	36	4
12BJ1A0359	R41034	UNCONVENTIONAL MACHINING PROCESSES	18	46	4
12BJ1A0359	R41035	MEMS	25	26	4
12BJ1A0359	R41037	AUTOMOBILE ENGINEERING	19	30	4
12BJ1A0359	R4103B	SIMULATION LAB	23	47	2
12BJ1A0359	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	42	2
12BJ1A0360	R41031	REFRIGERATION & AIR CONDITIONING	17	49	4
12BJ1A0360	R41032	CAD/CAM	15	27	4
12BJ1A0360	R41033	ALTERNATIVE SOURCES OF ENERGY	18	38	4
12BJ1A0360	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	50	4
12BJ1A0360	R41035	MEMS	22	33	4
12BJ1A0360	R41037	AUTOMOBILE ENGINEERING	17	54	4
12BJ1A0360	R4103B	SIMULATION LAB	24	46	2
12BJ1A0360	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	44	2
12BJ1A0361	R41031	REFRIGERATION & AIR CONDITIONING	17	36	4
12BJ1A0361	R41032	CAD/CAM	17	38	4
12BJ1A0361	R41033	ALTERNATIVE SOURCES OF ENERGY	20	36	4
12BJ1A0361	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	43	4
12BJ1A0361	R41035	MEMS	21	28	4
12BJ1A0361	R41037	AUTOMOBILE ENGINEERING	19	33	4
12BJ1A0361	R4103B	SIMULATION LAB	23	47	2
12BJ1A0361	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	44	2
12BJ1A0362	R41031	REFRIGERATION & AIR CONDITIONING	2	28	0
12BJ1A0362	R41032	CAD/CAM	0	6	0
12BJ1A0362	R41033	ALTERNATIVE SOURCES OF ENERGY	0	0	0
12BJ1A0362	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	11	0
12BJ1A0362	R41035	MEMS	3	23	0
12BJ1A0362	R41037	AUTOMOBILE ENGINEERING	0	14	0
12BJ1A0362	R4103B	SIMULATION LAB	24	45	2
12BJ1A0362	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
12BJ1A0363	R41031	REFRIGERATION & AIR CONDITIONING	4	2	0
12BJ1A0363	R41032	CAD/CAM	5	2	0
12BJ1A0363	R41033	ALTERNATIVE SOURCES OF ENERGY	0	18	0
12BJ1A0363	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	6	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0363	R41035	MEMS	2	15	0
12BJ1A0363	R41037	AUTOMOBILE ENGINEERING	0	7	0
12BJ1A0363	R4103B	SIMULATION LAB	24	46	2
12BJ1A0363	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	42	2
12BJ1A0364	R41031	REFRIGERATION & AIR CONDITIONING	21	37	4
12BJ1A0364	R41032	CAD/CAM	19	26	4
12BJ1A0364	R41033	ALTERNATIVE SOURCES OF ENERGY	18	40	4
12BJ1A0364	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	42	4
12BJ1A0364	R41035	MEMS	23	29	4
12BJ1A0364	R41037	AUTOMOBILE ENGINEERING	22	50	4
12BJ1A0364	R4103B	SIMULATION LAB	23	49	2
12BJ1A0364	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
12BJ1A0365	R41031	REFRIGERATION & AIR CONDITIONING	13	-1	0
12BJ1A0365	R41032	CAD/CAM	20	-1	0
12BJ1A0365	R41033	ALTERNATIVE SOURCES OF ENERGY	20	0	0
12BJ1A0365	R41034	UNCONVENTIONAL MACHINING PROCESSES	9	-1	0
12BJ1A0365	R41035	MEMS	3	12	0
12BJ1A0365	R41037	AUTOMOBILE ENGINEERING	21	10	0
12BJ1A0365	R4103B	SIMULATION LAB	24	44	2
12BJ1A0365	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	43	2
12BJ1A0366	R41031	REFRIGERATION & AIR CONDITIONING	24	50	4
12BJ1A0366	R41032	CAD/CAM	19	30	4
12BJ1A0366	R41033	ALTERNATIVE SOURCES OF ENERGY	22	31	4
12BJ1A0366	R41034	UNCONVENTIONAL MACHINING PROCESSES	25	33	4
12BJ1A0366	R41035	MEMS	17	41	4
12BJ1A0366	R41037	AUTOMOBILE ENGINEERING	23	14	0
12BJ1A0366	R4103B	SIMULATION LAB	23	48	2
12BJ1A0366	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0367	R41031	REFRIGERATION & AIR CONDITIONING	16	13	0
12BJ1A0367	R41032	CAD/CAM	15	6	0
12BJ1A0367	R41033	ALTERNATIVE SOURCES OF ENERGY	22	45	4
12BJ1A0367	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	34	4
12BJ1A0367	R41035	MEMS	18	33	4
12BJ1A0367	R41037	AUTOMOBILE ENGINEERING	20	15	0
12BJ1A0367	R4103B	SIMULATION LAB	24	45	2
12BJ1A0367	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	49	2
12BJ1A0368	R41031	REFRIGERATION & AIR CONDITIONING	19	41	4
12BJ1A0368	R41032	CAD/CAM	17	26	4
12BJ1A0368	R41033	ALTERNATIVE SOURCES OF ENERGY	16	32	4
12BJ1A0368	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	48	4
12BJ1A0368	R41035	MEMS	21	26	4
12BJ1A0368	R41037	AUTOMOBILE ENGINEERING	18	57	4
12BJ1A0368	R4103B	SIMULATION LAB	23	49	2
12BJ1A0368	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	48	2
12BJ1A0369	R41031	REFRIGERATION & AIR CONDITIONING	17	14	0
12BJ1A0369	R41032	CAD/CAM	20	43	4
12BJ1A0369	R41033	ALTERNATIVE SOURCES OF ENERGY	19	19	0
12BJ1A0369	R41034	UNCONVENTIONAL MACHINING PROCESSES	23	34	4
12BJ1A0369	R41035	MEMS	24	41	4
12BJ1A0369	R41037	AUTOMOBILE ENGINEERING	20	28	4
12BJ1A0369	R4103B	SIMULATION LAB	24	45	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0369	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
12BJ1A0371	R41031	REFRIGERATION & AIR CONDITIONING	18	42	4
12BJ1A0371	R41032	CAD/CAM	15	46	4
12BJ1A0371	R41033	ALTERNATIVE SOURCES OF ENERGY	20	31	4
12BJ1A0371	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	45	4
12BJ1A0371	R41035	MEMS	22	37	4
12BJ1A0371	R41037	AUTOMOBILE ENGINEERING	23	37	4
12BJ1A0371	R4103B	SIMULATION LAB	24	49	2
12BJ1A0371	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	47	2
12BJ1A0372	R41031	REFRIGERATION & AIR CONDITIONING	21	37	4
12BJ1A0372	R41032	CAD/CAM	14	27	4
12BJ1A0372	R41033	ALTERNATIVE SOURCES OF ENERGY	19	48	4
12BJ1A0372	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	35	4
12BJ1A0372	R41035	MEMS	22	41	4
12BJ1A0372	R41037	AUTOMOBILE ENGINEERING	14	37	4
12BJ1A0372	R4103B	SIMULATION LAB	24	47	2
12BJ1A0372	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	45	2
12BJ1A0373	R41031	REFRIGERATION & AIR CONDITIONING	15	30	4
12BJ1A0373	R41032	CAD/CAM	16	26	4
12BJ1A0373	R41033	ALTERNATIVE SOURCES OF ENERGY	19	4	0
12BJ1A0373	R41034	UNCONVENTIONAL MACHINING PROCESSES	15	20	0
12BJ1A0373	R41035	MEMS	23	8	0
12BJ1A0373	R41037	AUTOMOBILE ENGINEERING	19	43	4
12BJ1A0373	R4103B	SIMULATION LAB	23	44	2
12BJ1A0373	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	49	2
12BJ1A0374	R41031	REFRIGERATION & AIR CONDITIONING	13	27	4
12BJ1A0374	R41032	CAD/CAM	17	36	4
12BJ1A0374	R41033	ALTERNATIVE SOURCES OF ENERGY	15	26	4
12BJ1A0374	R41034	UNCONVENTIONAL MACHINING PROCESSES	19	28	4
12BJ1A0374	R41035	MEMS	17	29	4
12BJ1A0374	R41037	AUTOMOBILE ENGINEERING	21	26	4
12BJ1A0374	R4103B	SIMULATION LAB	23	47	2
12BJ1A0374	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0376	R41031	REFRIGERATION & AIR CONDITIONING	19	51	4
12BJ1A0376	R41032	CAD/CAM	23	49	4
12BJ1A0376	R41033	ALTERNATIVE SOURCES OF ENERGY	19	42	4
12BJ1A0376	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	49	4
12BJ1A0376	R41035	MEMS	24	30	4
12BJ1A0376	R41037	AUTOMOBILE ENGINEERING	21	39	4
12BJ1A0376	R4103B	SIMULATION LAB	24	48	2
12BJ1A0376	R4103C	ADVANCED COMMUNICATION SKILLS LAB	24	45	2
12BJ1A0377	R41031	REFRIGERATION & AIR CONDITIONING	19	38	4
12BJ1A0377	R41032	CAD/CAM	21	27	4
12BJ1A0377	R41033	ALTERNATIVE SOURCES OF ENERGY	17	31	4
12BJ1A0377	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	40	4
12BJ1A0377	R41035	MEMS	23	33	4
12BJ1A0377	R41037	AUTOMOBILE ENGINEERING	14	8	0
12BJ1A0377	R4103B	SIMULATION LAB	24	47	2
12BJ1A0377	R4103C	ADVANCED COMMUNICATION SKILLS LAB	23	43	2
12BJ1A0378	R41031	REFRIGERATION & AIR CONDITIONING	16	43	4
12BJ1A0378	R41032	CAD/CAM	20	26	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0378	R41033	ALTERNATIVE SOURCES OF ENERGY	19	36	4
12BJ1A0378	R41034	UNCONVENTIONAL MACHINING PROCESSES	25	42	4
12BJ1A0378	R41035	MEMS	25	15	0
12BJ1A0378	R41037	AUTOMOBILE ENGINEERING	14	49	4
12BJ1A0378	R4103B	SIMULATION LAB	23	46	2
12BJ1A0378	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0379	R41031	REFRIGERATION & AIR CONDITIONING	18	4	0
12BJ1A0379	R41032	CAD/CAM	15	16	0
12BJ1A0379	R41033	ALTERNATIVE SOURCES OF ENERGY	16	15	0
12BJ1A0379	R41034	UNCONVENTIONAL MACHINING PROCESSES	14	17	0
12BJ1A0379	R41035	MEMS	21	31	4
12BJ1A0379	R41037	AUTOMOBILE ENGINEERING	22	0	0
12BJ1A0379	R4103B	SIMULATION LAB	23	45	2
12BJ1A0379	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	45	2
12BJ1A0380	R41031	REFRIGERATION & AIR CONDITIONING	11	2	0
12BJ1A0380	R41032	CAD/CAM	0	0	0
12BJ1A0380	R41033	ALTERNATIVE SOURCES OF ENERGY	14	8	0
12BJ1A0380	R41034	UNCONVENTIONAL MACHINING PROCESSES	12	6	0
12BJ1A0380	R41035	MEMS	14	18	0
12BJ1A0380	R41037	AUTOMOBILE ENGINEERING	16	0	0
12BJ1A0380	R4103B	SIMULATION LAB	24	45	2
12BJ1A0380	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
12BJ1A0381	R41031	REFRIGERATION & AIR CONDITIONING	16	36	4
12BJ1A0381	R41032	CAD/CAM	15	27	4
12BJ1A0381	R41033	ALTERNATIVE SOURCES OF ENERGY	21	45	4
12BJ1A0381	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	47	4
12BJ1A0381	R41035	MEMS	23	53	4
12BJ1A0381	R41037	AUTOMOBILE ENGINEERING	20	36	4
12BJ1A0381	R4103B	SIMULATION LAB	24	47	2
12BJ1A0381	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
12BJ1A0382	R41031	REFRIGERATION & AIR CONDITIONING	14	33	4
12BJ1A0382	R41032	CAD/CAM	15	26	4
12BJ1A0382	R41033	ALTERNATIVE SOURCES OF ENERGY	20	17	0
12BJ1A0382	R41034	UNCONVENTIONAL MACHINING PROCESSES	20	35	4
12BJ1A0382	R41035	MEMS	22	9	0
12BJ1A0382	R41037	AUTOMOBILE ENGINEERING	22	38	4
12BJ1A0382	R4103B	SIMULATION LAB	24	44	2
12BJ1A0382	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	48	2
12BJ1A0383	R41031	REFRIGERATION & AIR CONDITIONING	13	2	0
12BJ1A0383	R41032	CAD/CAM	16	14	0
12BJ1A0383	R41033	ALTERNATIVE SOURCES OF ENERGY	17	0	0
12BJ1A0383	R41034	UNCONVENTIONAL MACHINING PROCESSES	4	14	0
12BJ1A0383	R41035	MEMS	2	5	0
12BJ1A0383	R41037	AUTOMOBILE ENGINEERING	14	0	0
12BJ1A0383	R4103B	SIMULATION LAB	24	44	2
12BJ1A0383	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	43	2
12BJ1A0386	R41031	REFRIGERATION & AIR CONDITIONING	16	32	4
12BJ1A0386	R41032	CAD/CAM	15	19	0
12BJ1A0386	R41033	ALTERNATIVE SOURCES OF ENERGY	19	16	0
12BJ1A0386	R41034	UNCONVENTIONAL MACHINING PROCESSES	17	16	0
12BJ1A0386	R41035	MEMS	25	5	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0386	R41037	AUTOMOBILE ENGINEERING	16	12	0
12BJ1A0386	R4103B	SIMULATION LAB	23	47	2
12BJ1A0386	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	44	2
12BJ1A0387	R41031	REFRIGERATION & AIR CONDITIONING	11	14	0
12BJ1A0387	R41032	CAD/CAM	14	1	0
12BJ1A0387	R41033	ALTERNATIVE SOURCES OF ENERGY	17	31	4
12BJ1A0387	R41034	UNCONVENTIONAL MACHINING PROCESSES	15	26	4
12BJ1A0387	R41035	MEMS	24	14	0
12BJ1A0387	R41037	AUTOMOBILE ENGINEERING	16	11	0
12BJ1A0387	R4103B	SIMULATION LAB	24	45	2
12BJ1A0387	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
12BJ1A0388	R41031	REFRIGERATION & AIR CONDITIONING	15	45	4
12BJ1A0388	R41032	CAD/CAM	17	32	4
12BJ1A0388	R41033	ALTERNATIVE SOURCES OF ENERGY	21	26	4
12BJ1A0388	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	38	4
12BJ1A0388	R41035	MEMS	23	16	0
12BJ1A0388	R41037	AUTOMOBILE ENGINEERING	16	47	4
12BJ1A0388	R4103B	SIMULATION LAB	24	46	2
12BJ1A0388	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0389	R41031	REFRIGERATION & AIR CONDITIONING	15	14	0
12BJ1A0389	R41032	CAD/CAM	16	43	4
12BJ1A0389	R41033	ALTERNATIVE SOURCES OF ENERGY	17	14	0
12BJ1A0389	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	36	4
12BJ1A0389	R41035	MEMS	22	34	4
12BJ1A0389	R41037	AUTOMOBILE ENGINEERING	15	19	0
12BJ1A0389	R4103B	SIMULATION LAB	23	45	2
12BJ1A0389	R4103C	ADVANCED COMMUNICATION SKILLS LAB	25	47	2
12BJ1A0390	R41031	REFRIGERATION & AIR CONDITIONING	18	10	0
12BJ1A0390	R41032	CAD/CAM	19	6	0
12BJ1A0390	R41033	ALTERNATIVE SOURCES OF ENERGY	18	0	0
12BJ1A0390	R41034	UNCONVENTIONAL MACHINING PROCESSES	5	2	0
12BJ1A0390	R41035	MEMS	18	16	0
12BJ1A0390	R41037	AUTOMOBILE ENGINEERING	19	12	0
12BJ1A0390	R4103B	SIMULATION LAB	24	44	2
12BJ1A0390	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	44	2
12BJ1A0391	R41031	REFRIGERATION & AIR CONDITIONING	18	37	4
12BJ1A0391	R41032	CAD/CAM	18	39	4
12BJ1A0391	R41033	ALTERNATIVE SOURCES OF ENERGY	20	62	4
12BJ1A0391	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	40	4
12BJ1A0391	R41035	MEMS	23	55	4
12BJ1A0391	R41037	AUTOMOBILE ENGINEERING	16	35	4
12BJ1A0391	R4103B	SIMULATION LAB	24	48	2
12BJ1A0391	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	48	2
12BJ1A0392	R41031	REFRIGERATION & AIR CONDITIONING	14	55	4
12BJ1A0392	R41032	CAD/CAM	16	32	4
12BJ1A0392	R41033	ALTERNATIVE SOURCES OF ENERGY	17	36	4
12BJ1A0392	R41034	UNCONVENTIONAL MACHINING PROCESSES	16	46	4
12BJ1A0392	R41035	MEMS	23	29	4
12BJ1A0392	R41037	AUTOMOBILE ENGINEERING	17	50	4
12BJ1A0392	R4103B	SIMULATION LAB	24	47	2
12BJ1A0392	R4103C	ADVANCED COMMUNICATION SKILLS LAB	25	49	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0394	R41031	REFRIGERATION & AIR CONDITIONING	0	-1	0
12BJ1A0394	R41032	CAD/CAM	15	-1	0
12BJ1A0394	R41033	ALTERNATIVE SOURCES OF ENERGY	0	-1	0
12BJ1A0394	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	-1	0
12BJ1A0394	R41035	MEMS	0	-1	0
12BJ1A0394	R41037	AUTOMOBILE ENGINEERING	0	-1	0
12BJ1A0394	R4103B	SIMULATION LAB	24	-1	0
12BJ1A0394	R4103C	ADVANCED COMMUNICATION SKILLS LAB	18	-1	0
12BJ1A0395	R41031	REFRIGERATION & AIR CONDITIONING	14	12	0
12BJ1A0395	R41032	CAD/CAM	19	23	0
12BJ1A0395	R41033	ALTERNATIVE SOURCES OF ENERGY	15	16	0
12BJ1A0395	R41034	UNCONVENTIONAL MACHINING PROCESSES	12	14	0
12BJ1A0395	R41035	MEMS	21	16	0
12BJ1A0395	R41037	AUTOMOBILE ENGINEERING	16	18	0
12BJ1A0395	R4103B	SIMULATION LAB	23	45	2
12BJ1A0395	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
12BJ1A0401	R41026	INSTRUMENTATION	15	-1	0
12BJ1A0401	R41041	OPTICAL COMMUNICATIONS	15	-1	0
12BJ1A0401	R41042	EMBEDDED SYSTEMS	15	-1	0
12BJ1A0401	R41043	DIGITAL IMAGE PROCESSING	15	-1	0
12BJ1A0401	R41044	RADAR SYSTEMS	15	-1	0
12BJ1A0401	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	-1	0
12BJ1A0401	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	-1	0
12BJ1A0401	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	0	-1	0
12BJ1A0402	R41026	INSTRUMENTATION	23	42	4
12BJ1A0402	R41041	OPTICAL COMMUNICATIONS	24	47	4
12BJ1A0402	R41042	EMBEDDED SYSTEMS	24	54	4
12BJ1A0402	R41043	DIGITAL IMAGE PROCESSING	24	31	4
12BJ1A0402	R41044	RADAR SYSTEMS	22	27	4
12BJ1A0402	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	36	4
12BJ1A0402	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0402	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	47	2
12BJ1A0403	R41026	INSTRUMENTATION	22	39	4
12BJ1A0403	R41041	OPTICAL COMMUNICATIONS	25	39	4
12BJ1A0403	R41042	EMBEDDED SYSTEMS	24	46	4
12BJ1A0403	R41043	DIGITAL IMAGE PROCESSING	24	26	4
12BJ1A0403	R41044	RADAR SYSTEMS	24	41	4
12BJ1A0403	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	25	46	4
12BJ1A0403	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0403	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0404	R41026	INSTRUMENTATION	21	39	4
12BJ1A0404	R41041	OPTICAL COMMUNICATIONS	25	51	4
12BJ1A0404	R41042	EMBEDDED SYSTEMS	24	42	4
12BJ1A0404	R41043	DIGITAL IMAGE PROCESSING	21	36	4
12BJ1A0404	R41044	RADAR SYSTEMS	22	34	4
12BJ1A0404	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	38	4
12BJ1A0404	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0404	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
12BJ1A0405	R41026	INSTRUMENTATION	18	11	0
12BJ1A0405	R41041	OPTICAL COMMUNICATIONS	17	13	0
12BJ1A0405	R41042	EMBEDDED SYSTEMS	18	31	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0405	R41043	DIGITAL IMAGE PROCESSING	18	27	4
12BJ1A0405	R41044	RADAR SYSTEMS	10	0	0
12BJ1A0405	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	14	27	4
12BJ1A0405	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0405	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	46	2
12BJ1A0406	R41026	INSTRUMENTATION	24	34	4
12BJ1A0406	R41041	OPTICAL COMMUNICATIONS	23	40	4
12BJ1A0406	R41042	EMBEDDED SYSTEMS	22	42	4
12BJ1A0406	R41043	DIGITAL IMAGE PROCESSING	22	15	0
12BJ1A0406	R41044	RADAR SYSTEMS	22	49	4
12BJ1A0406	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	29	4
12BJ1A0406	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A0406	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0407	R41026	INSTRUMENTATION	22	26	4
12BJ1A0407	R41041	OPTICAL COMMUNICATIONS	24	42	4
12BJ1A0407	R41042	EMBEDDED SYSTEMS	23	57	4
12BJ1A0407	R41043	DIGITAL IMAGE PROCESSING	23	26	4
12BJ1A0407	R41044	RADAR SYSTEMS	22	44	4
12BJ1A0407	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	43	4
12BJ1A0407	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0407	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
12BJ1A0408	R41026	INSTRUMENTATION	21	39	4
12BJ1A0408	R41041	OPTICAL COMMUNICATIONS	21	44	4
12BJ1A0408	R41042	EMBEDDED SYSTEMS	21	34	4
12BJ1A0408	R41043	DIGITAL IMAGE PROCESSING	25	29	4
12BJ1A0408	R41044	RADAR SYSTEMS	22	27	4
12BJ1A0408	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	35	4
12BJ1A0408	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0408	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0409	R41026	INSTRUMENTATION	21	42	4
12BJ1A0409	R41041	OPTICAL COMMUNICATIONS	21	55	4
12BJ1A0409	R41042	EMBEDDED SYSTEMS	24	40	4
12BJ1A0409	R41043	DIGITAL IMAGE PROCESSING	24	28	4
12BJ1A0409	R41044	RADAR SYSTEMS	25	48	4
12BJ1A0409	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	46	4
12BJ1A0409	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0409	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	50	2
12BJ1A0410	R41026	INSTRUMENTATION	23	38	4
12BJ1A0410	R41041	OPTICAL COMMUNICATIONS	21	14	0
12BJ1A0410	R41042	EMBEDDED SYSTEMS	21	10	0
12BJ1A0410	R41043	DIGITAL IMAGE PROCESSING	23	5	0
12BJ1A0410	R41044	RADAR SYSTEMS	22	7	0
12BJ1A0410	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	28	4
12BJ1A0410	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0410	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	42	2
12BJ1A0411	R41026	INSTRUMENTATION	18	17	0
12BJ1A0411	R41041	OPTICAL COMMUNICATIONS	17	26	4
12BJ1A0411	R41042	EMBEDDED SYSTEMS	22	26	4
12BJ1A0411	R41043	DIGITAL IMAGE PROCESSING	20	2	0
12BJ1A0411	R41044	RADAR SYSTEMS	19	27	4
12BJ1A0411	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	36	4



Htno	Subcode	Subname	Internal	External	credits
12BJ1A0411	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0411	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12BJ1A0412	R41026	INSTRUMENTATION	18	30	4
12BJ1A0412	R41041	OPTICAL COMMUNICATIONS	17	11	0
12BJ1A0412	R41042	EMBEDDED SYSTEMS	20	38	4
12BJ1A0412	R41043	DIGITAL IMAGE PROCESSING	20	4	0
12BJ1A0412	R41044	RADAR SYSTEMS	15	3	0
12BJ1A0412	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	14	0
12BJ1A0412	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0412	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	45	2
12BJ1A0413	R41026	INSTRUMENTATION	23	32	4
12BJ1A0413	R41041	OPTICAL COMMUNICATIONS	25	31	4
12BJ1A0413	R41042	EMBEDDED SYSTEMS	22	48	4
12BJ1A0413	R41043	DIGITAL IMAGE PROCESSING	23	29	4
12BJ1A0413	R41044	RADAR SYSTEMS	25	46	4
12BJ1A0413	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	49	4
12BJ1A0413	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0413	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	48	2
12BJ1A0414	R41026	INSTRUMENTATION	22	36	4
12BJ1A0414	R41041	OPTICAL COMMUNICATIONS	23	47	4
12BJ1A0414	R41042	EMBEDDED SYSTEMS	21	39	4
12BJ1A0414	R41043	DIGITAL IMAGE PROCESSING	24	29	4
12BJ1A0414	R41044	RADAR SYSTEMS	23	15	0
12BJ1A0414	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	35	4
12BJ1A0414	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	48	2
12BJ1A0414	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0415	R41026	INSTRUMENTATION	24	42	4
12BJ1A0415	R41041	OPTICAL COMMUNICATIONS	24	56	4
12BJ1A0415	R41042	EMBEDDED SYSTEMS	25	63	4
12BJ1A0415	R41043	DIGITAL IMAGE PROCESSING	25	53	4
12BJ1A0415	R41044	RADAR SYSTEMS	23	43	4
12BJ1A0415	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	24	59	4
12BJ1A0415	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0415	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	50	2
12BJ1A0416	R41026	INSTRUMENTATION	24	36	4
12BJ1A0416	R41041	OPTICAL COMMUNICATIONS	24	44	4
12BJ1A0416	R41042	EMBEDDED SYSTEMS	24	38	4
12BJ1A0416	R41043	DIGITAL IMAGE PROCESSING	24	26	4
12BJ1A0416	R41044	RADAR SYSTEMS	23	37	4
12BJ1A0416	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	36	4
12BJ1A0416	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0416	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	45	2
12BJ1A0417	R41026	INSTRUMENTATION	25	32	4
12BJ1A0417	R41041	OPTICAL COMMUNICATIONS	21	37	4
12BJ1A0417	R41042	EMBEDDED SYSTEMS	24	42	4
12BJ1A0417	R41043	DIGITAL IMAGE PROCESSING	25	29	4
12BJ1A0417	R41044	RADAR SYSTEMS	23	47	4
12BJ1A0417	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	51	4
12BJ1A0417	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	48	2
12BJ1A0417	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	49	2
12BJ1A0418	R41026	INSTRUMENTATION	25	38	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0418	R41041	OPTICAL COMMUNICATIONS	22	35	4
12BJ1A0418	R41042	EMBEDDED SYSTEMS	24	50	4
12BJ1A0418	R41043	DIGITAL IMAGE PROCESSING	22	29	4
12BJ1A0418	R41044	RADAR SYSTEMS	24	46	4
12BJ1A0418	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	31	4
12BJ1A0418	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0418	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	48	2
12BJ1A0419	R41026	INSTRUMENTATION	23	36	4
12BJ1A0419	R41041	OPTICAL COMMUNICATIONS	21	62	4
12BJ1A0419	R41042	EMBEDDED SYSTEMS	25	56	4
12BJ1A0419	R41043	DIGITAL IMAGE PROCESSING	25	26	4
12BJ1A0419	R41044	RADAR SYSTEMS	24	38	4
12BJ1A0419	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	24	52	4
12BJ1A0419	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0419	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0420	R41026	INSTRUMENTATION	22	33	4
12BJ1A0420	R41041	OPTICAL COMMUNICATIONS	23	47	4
12BJ1A0420	R41042	EMBEDDED SYSTEMS	24	43	4
12BJ1A0420	R41043	DIGITAL IMAGE PROCESSING	25	26	4
12BJ1A0420	R41044	RADAR SYSTEMS	21	14	0
12BJ1A0420	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	26	4
12BJ1A0420	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0420	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0421	R41026	INSTRUMENTATION	23	-1	0
12BJ1A0421	R41041	OPTICAL COMMUNICATIONS	22	34	4
12BJ1A0421	R41042	EMBEDDED SYSTEMS	24	50	4
12BJ1A0421	R41043	DIGITAL IMAGE PROCESSING	24	27	4
12BJ1A0421	R41044	RADAR SYSTEMS	23	18	0
12BJ1A0421	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	-1	0
12BJ1A0421	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0421	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	46	2
12BJ1A0423	R41026	INSTRUMENTATION	23	37	4
12BJ1A0423	R41041	OPTICAL COMMUNICATIONS	22	39	4
12BJ1A0423	R41042	EMBEDDED SYSTEMS	24	39	4
12BJ1A0423	R41043	DIGITAL IMAGE PROCESSING	24	35	4
12BJ1A0423	R41044	RADAR SYSTEMS	23	43	4
12BJ1A0423	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	29	4
12BJ1A0423	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	48	2
12BJ1A0423	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	47	2
12BJ1A0424	R41026	INSTRUMENTATION	23	31	4
12BJ1A0424	R41041	OPTICAL COMMUNICATIONS	24	51	4
12BJ1A0424	R41042	EMBEDDED SYSTEMS	23	42	4
12BJ1A0424	R41043	DIGITAL IMAGE PROCESSING	24	29	4
12BJ1A0424	R41044	RADAR SYSTEMS	22	34	4
12BJ1A0424	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	47	4
12BJ1A0424	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0424	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0425	R41026	INSTRUMENTATION	15	27	4
12BJ1A0425	R41041	OPTICAL COMMUNICATIONS	19	32	4
12BJ1A0425	R41042	EMBEDDED SYSTEMS	20	30	4
12BJ1A0425	R41043	DIGITAL IMAGE PROCESSING	21	11	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0425	R41044	RADAR SYSTEMS	15	17	0
12BJ1A0425	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	8	0
12BJ1A0425	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0425	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	44	2
12BJ1A0426	R41026	INSTRUMENTATION	0	-1	0
12BJ1A0426	R41041	OPTICAL COMMUNICATIONS	0	-1	0
12BJ1A0426	R41042	EMBEDDED SYSTEMS	0	-1	0
12BJ1A0426	R41043	DIGITAL IMAGE PROCESSING	0	-1	0
12BJ1A0426	R41044	RADAR SYSTEMS	0	-1	0
12BJ1A0426	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	-1	0
12BJ1A0426	R4104B	DIGITAL SIGNAL PROCESSING LAB	15	-1	0
12BJ1A0426	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	14	-1	0
12BJ1A0427	R41026	INSTRUMENTATION	21	29	4
12BJ1A0427	R41041	OPTICAL COMMUNICATIONS	20	35	4
12BJ1A0427	R41042	EMBEDDED SYSTEMS	21	43	4
12BJ1A0427	R41043	DIGITAL IMAGE PROCESSING	23	28	4
12BJ1A0427	R41044	RADAR SYSTEMS	19	26	4
12BJ1A0427	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	26	4
12BJ1A0427	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0427	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	48	2
12BJ1A0428	R41026	INSTRUMENTATION	20	26	4
12BJ1A0428	R41041	OPTICAL COMMUNICATIONS	20	42	4
12BJ1A0428	R41042	EMBEDDED SYSTEMS	18	38	4
12BJ1A0428	R41043	DIGITAL IMAGE PROCESSING	20	10	0
12BJ1A0428	R41044	RADAR SYSTEMS	18	33	4
12BJ1A0428	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	43	4
12BJ1A0428	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0428	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0429	R41026	INSTRUMENTATION	18	36	4
12BJ1A0429	R41041	OPTICAL COMMUNICATIONS	19	46	4
12BJ1A0429	R41042	EMBEDDED SYSTEMS	20	32	4
12BJ1A0429	R41043	DIGITAL IMAGE PROCESSING	19	26	4
12BJ1A0429	R41044	RADAR SYSTEMS	16	37	4
12BJ1A0429	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	30	4
12BJ1A0429	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0429	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	42	2
12BJ1A0430	R41026	INSTRUMENTATION	24	26	4
12BJ1A0430	R41041	OPTICAL COMMUNICATIONS	24	15	0
12BJ1A0430	R41042	EMBEDDED SYSTEMS	21	35	4
12BJ1A0430	R41043	DIGITAL IMAGE PROCESSING	24	13	0
12BJ1A0430	R41044	RADAR SYSTEMS	20	41	4
12BJ1A0430	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	31	4
12BJ1A0430	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	47	2
12BJ1A0430	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	45	2
12BJ1A0431	R41026	INSTRUMENTATION	0	-1	0
12BJ1A0431	R41041	OPTICAL COMMUNICATIONS	17	-1	0
12BJ1A0431	R41042	EMBEDDED SYSTEMS	17	7	0
12BJ1A0431	R41043	DIGITAL IMAGE PROCESSING	0	0	0
12BJ1A0431	R41044	RADAR SYSTEMS	16	-1	0
12BJ1A0431	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	14	0
12BJ1A0431	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0431	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	41	2
12BJ1A0432	R41026	INSTRUMENTATION	22	16	0
12BJ1A0432	R41041	OPTICAL COMMUNICATIONS	21	27	4
12BJ1A0432	R41042	EMBEDDED SYSTEMS	18	30	4
12BJ1A0432	R41043	DIGITAL IMAGE PROCESSING	21	9	0
12BJ1A0432	R41044	RADAR SYSTEMS	16	11	0
12BJ1A0432	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	30	4
12BJ1A0432	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0432	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	43	2
12BJ1A0433	R41026	INSTRUMENTATION	18	13	0
12BJ1A0433	R41041	OPTICAL COMMUNICATIONS	14	32	4
12BJ1A0433	R41042	EMBEDDED SYSTEMS	14	33	4
12BJ1A0433	R41043	DIGITAL IMAGE PROCESSING	19	4	0
12BJ1A0433	R41044	RADAR SYSTEMS	15	15	0
12BJ1A0433	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	8	0
12BJ1A0433	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0433	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	42	2
12BJ1A0434	R41026	INSTRUMENTATION	16	13	0
12BJ1A0434	R41041	OPTICAL COMMUNICATIONS	19	17	0
12BJ1A0434	R41042	EMBEDDED SYSTEMS	14	30	4
12BJ1A0434	R41043	DIGITAL IMAGE PROCESSING	20	8	0
12BJ1A0434	R41044	RADAR SYSTEMS	17	26	4
12BJ1A0434	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	26	4
12BJ1A0434	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0434	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2
12BJ1A0435	R41026	INSTRUMENTATION	19	29	4
12BJ1A0435	R41041	OPTICAL COMMUNICATIONS	21	33	4
12BJ1A0435	R41042	EMBEDDED SYSTEMS	20	38	4
12BJ1A0435	R41043	DIGITAL IMAGE PROCESSING	21	16	0
12BJ1A0435	R41044	RADAR SYSTEMS	18	26	4
12BJ1A0435	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	26	4
12BJ1A0435	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	46	2
12BJ1A0435	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12BJ1A0436	R41026	INSTRUMENTATION	22	-1	0
12BJ1A0436	R41041	OPTICAL COMMUNICATIONS	9	-1	0
12BJ1A0436	R41042	EMBEDDED SYSTEMS	0	3	0
12BJ1A0436	R41043	DIGITAL IMAGE PROCESSING	20	-1	0
12BJ1A0436	R41044	RADAR SYSTEMS	6	-1	0
12BJ1A0436	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	-1	0
12BJ1A0436	R4104B	DIGITAL SIGNAL PROCESSING LAB	15	-1	0
12BJ1A0436	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	14	-1	0
12BJ1A0437	R41026	INSTRUMENTATION	22	33	4
12BJ1A0437	R41041	OPTICAL COMMUNICATIONS	22	33	4
12BJ1A0437	R41042	EMBEDDED SYSTEMS	18	32	4
12BJ1A0437	R41043	DIGITAL IMAGE PROCESSING	20	26	4
12BJ1A0437	R41044	RADAR SYSTEMS	19	27	4
12BJ1A0437	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	16	0
12BJ1A0437	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0437	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	46	2
12BJ1A0438	R41026	INSTRUMENTATION	22	32	4
12BJ1A0438	R41041	OPTICAL COMMUNICATIONS	24	30	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0438	R41042	EMBEDDED SYSTEMS	23	39	4
12BJ1A0438	R41043	DIGITAL IMAGE PROCESSING	24	27	4
12BJ1A0438	R41044	RADAR SYSTEMS	17	32	4
12BJ1A0438	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	32	4
12BJ1A0438	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0438	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	43	2
12BJ1A0439	R41026	INSTRUMENTATION	24	34	4
12BJ1A0439	R41041	OPTICAL COMMUNICATIONS	16	40	4
12BJ1A0439	R41042	EMBEDDED SYSTEMS	19	39	4
12BJ1A0439	R41043	DIGITAL IMAGE PROCESSING	23	34	4
12BJ1A0439	R41044	RADAR SYSTEMS	20	31	4
12BJ1A0439	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	26	4
12BJ1A0439	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0439	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12BJ1A0440	R41026	INSTRUMENTATION	23	17	0
12BJ1A0440	R41041	OPTICAL COMMUNICATIONS	18	36	4
12BJ1A0440	R41042	EMBEDDED SYSTEMS	23	28	4
12BJ1A0440	R41043	DIGITAL IMAGE PROCESSING	22	0	0
12BJ1A0440	R41044	RADAR SYSTEMS	21	16	0
12BJ1A0440	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	34	4
12BJ1A0440	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0440	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12BJ1A0441	R41026	INSTRUMENTATION	21	30	4
12BJ1A0441	R41041	OPTICAL COMMUNICATIONS	20	39	4
12BJ1A0441	R41042	EMBEDDED SYSTEMS	24	29	4
12BJ1A0441	R41043	DIGITAL IMAGE PROCESSING	20	35	4
12BJ1A0441	R41044	RADAR SYSTEMS	20	27	4
12BJ1A0441	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	26	4
12BJ1A0441	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0441	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	48	2
12BJ1A0442	R41026	INSTRUMENTATION	24	26	4
12BJ1A0442	R41041	OPTICAL COMMUNICATIONS	20	40	4
12BJ1A0442	R41042	EMBEDDED SYSTEMS	25	43	4
12BJ1A0442	R41043	DIGITAL IMAGE PROCESSING	22	26	4
12BJ1A0442	R41044	RADAR SYSTEMS	20	36	4
12BJ1A0442	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	41	4
12BJ1A0442	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0442	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	42	2
12BJ1A0443	R41026	INSTRUMENTATION	17	31	4
12BJ1A0443	R41041	OPTICAL COMMUNICATIONS	14	26	4
12BJ1A0443	R41042	EMBEDDED SYSTEMS	15	12	0
12BJ1A0443	R41043	DIGITAL IMAGE PROCESSING	13	5	0
12BJ1A0443	R41044	RADAR SYSTEMS	7	4	0
12BJ1A0443	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	26	4
12BJ1A0443	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0443	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	47	2
12BJ1A0444	R41026	INSTRUMENTATION	20	28	4
12BJ1A0444	R41041	OPTICAL COMMUNICATIONS	14	13	0
12BJ1A0444	R41042	EMBEDDED SYSTEMS	15	9	0
12BJ1A0444	R41043	DIGITAL IMAGE PROCESSING	22	0	0
12BJ1A0444	R41044	RADAR SYSTEMS	18	14	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0444	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	34	4
12BJ1A0444	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0444	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	40	2
12BJ1A0445	R41026	INSTRUMENTATION	19	39	4
12BJ1A0445	R41041	OPTICAL COMMUNICATIONS	21	40	4
12BJ1A0445	R41042	EMBEDDED SYSTEMS	21	30	4
12BJ1A0445	R41043	DIGITAL IMAGE PROCESSING	24	30	4
12BJ1A0445	R41044	RADAR SYSTEMS	20	38	4
12BJ1A0445	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	30	4
12BJ1A0445	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0445	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	45	2
12BJ1A0447	R41026	INSTRUMENTATION	18	26	4
12BJ1A0447	R41041	OPTICAL COMMUNICATIONS	17	16	0
12BJ1A0447	R41042	EMBEDDED SYSTEMS	20	35	4
12BJ1A0447	R41043	DIGITAL IMAGE PROCESSING	18	17	0
12BJ1A0447	R41044	RADAR SYSTEMS	14	32	4
12BJ1A0447	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	32	4
12BJ1A0447	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0447	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	41	2
12BJ1A0448	R41026	INSTRUMENTATION	21	41	4
12BJ1A0448	R41041	OPTICAL COMMUNICATIONS	18	34	4
12BJ1A0448	R41042	EMBEDDED SYSTEMS	20	39	4
12BJ1A0448	R41043	DIGITAL IMAGE PROCESSING	22	17	0
12BJ1A0448	R41044	RADAR SYSTEMS	17	27	4
12BJ1A0448	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	28	4
12BJ1A0448	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0448	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	13	42	2
12BJ1A0450	R41026	INSTRUMENTATION	18	20	0
12BJ1A0450	R41041	OPTICAL COMMUNICATIONS	17	26	4
12BJ1A0450	R41042	EMBEDDED SYSTEMS	17	28	4
12BJ1A0450	R41043	DIGITAL IMAGE PROCESSING	22	0	0
12BJ1A0450	R41044	RADAR SYSTEMS	15	27	4
12BJ1A0450	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	30	4
12BJ1A0450	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0450	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	40	2
12BJ1A0451	R41026	INSTRUMENTATION	20	29	4
12BJ1A0451	R41041	OPTICAL COMMUNICATIONS	18	50	4
12BJ1A0451	R41042	EMBEDDED SYSTEMS	15	31	4
12BJ1A0451	R41043	DIGITAL IMAGE PROCESSING	17	8	0
12BJ1A0451	R41044	RADAR SYSTEMS	18	19	0
12BJ1A0451	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	26	4
12BJ1A0451	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0451	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	40	2
12BJ1A0452	R41026	INSTRUMENTATION	17	26	4
12BJ1A0452	R41041	OPTICAL COMMUNICATIONS	21	17	0
12BJ1A0452	R41042	EMBEDDED SYSTEMS	19	37	4
12BJ1A0452	R41043	DIGITAL IMAGE PROCESSING	20	16	0
12BJ1A0452	R41044	RADAR SYSTEMS	15	12	0
12BJ1A0452	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	29	4
12BJ1A0452	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0452	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	44	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0453	R41026	INSTRUMENTATION	21	27	4
12BJ1A0453	R41041	OPTICAL COMMUNICATIONS	20	36	4
12BJ1A0453	R41042	EMBEDDED SYSTEMS	17	26	4
12BJ1A0453	R41043	DIGITAL IMAGE PROCESSING	16	29	4
12BJ1A0453	R41044	RADAR SYSTEMS	12	13	0
12BJ1A0453	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	34	4
12BJ1A0453	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0453	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	45	2
12BJ1A0454	R41026	INSTRUMENTATION	18	26	4
12BJ1A0454	R41041	OPTICAL COMMUNICATIONS	18	26	4
12BJ1A0454	R41042	EMBEDDED SYSTEMS	19	16	0
12BJ1A0454	R41043	DIGITAL IMAGE PROCESSING	16	0	0
12BJ1A0454	R41044	RADAR SYSTEMS	18	9	0
12BJ1A0454	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	43	4
12BJ1A0454	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0454	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	44	2
12BJ1A0456	R41026	INSTRUMENTATION	22	12	0
12BJ1A0456	R41041	OPTICAL COMMUNICATIONS	18	32	4
12BJ1A0456	R41042	EMBEDDED SYSTEMS	17	28	4
12BJ1A0456	R41043	DIGITAL IMAGE PROCESSING	16	26	4
12BJ1A0456	R41044	RADAR SYSTEMS	20	19	0
12BJ1A0456	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	10	0
12BJ1A0456	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0456	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	42	2
12BJ1A0457	R41026	INSTRUMENTATION	25	14	0
12BJ1A0457	R41041	OPTICAL COMMUNICATIONS	23	33	4
12BJ1A0457	R41042	EMBEDDED SYSTEMS	22	38	4
12BJ1A0457	R41043	DIGITAL IMAGE PROCESSING	22	12	0
12BJ1A0457	R41044	RADAR SYSTEMS	19	15	0
12BJ1A0457	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	26	4
12BJ1A0457	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	48	2
12BJ1A0457	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	43	2
12BJ1A0458	R41026	INSTRUMENTATION	23	0	0
12BJ1A0458	R41041	OPTICAL COMMUNICATIONS	21	10	0
12BJ1A0458	R41042	EMBEDDED SYSTEMS	21	0	0
12BJ1A0458	R41043	DIGITAL IMAGE PROCESSING	24	11	0
12BJ1A0458	R41044	RADAR SYSTEMS	17	6	0
12BJ1A0458	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	17	0
12BJ1A0458	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0458	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	41	2
12BJ1A0459	R41026	INSTRUMENTATION	22	3	0
12BJ1A0459	R41041	OPTICAL COMMUNICATIONS	23	39	4
12BJ1A0459	R41042	EMBEDDED SYSTEMS	18	15	0
12BJ1A0459	R41043	DIGITAL IMAGE PROCESSING	19	12	0
12BJ1A0459	R41044	RADAR SYSTEMS	17	0	0
12BJ1A0459	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	35	4
12BJ1A0459	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A0459	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A0460	R41026	INSTRUMENTATION	20	26	4
12BJ1A0460	R41041	OPTICAL COMMUNICATIONS	18	32	4
12BJ1A0460	R41042	EMBEDDED SYSTEMS	18	27	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0460	R41043	DIGITAL IMAGE PROCESSING	19	6	0
12BJ1A0460	R41044	RADAR SYSTEMS	18	13	0
12BJ1A0460	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	10	0
12BJ1A0460	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	48	2
12BJ1A0460	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12BJ1A0461	R41026	INSTRUMENTATION	21	3	0
12BJ1A0461	R41041	OPTICAL COMMUNICATIONS	20	26	4
12BJ1A0461	R41042	EMBEDDED SYSTEMS	22	31	4
12BJ1A0461	R41043	DIGITAL IMAGE PROCESSING	25	6	0
12BJ1A0461	R41044	RADAR SYSTEMS	19	26	4
12BJ1A0461	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	29	4
12BJ1A0461	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0461	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	45	2
12BJ1A0462	R41026	INSTRUMENTATION	21	44	4
12BJ1A0462	R41041	OPTICAL COMMUNICATIONS	25	39	4
12BJ1A0462	R41042	EMBEDDED SYSTEMS	22	54	4
12BJ1A0462	R41043	DIGITAL IMAGE PROCESSING	21	-1	0
12BJ1A0462	R41044	RADAR SYSTEMS	22	36	4
12BJ1A0462	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	37	4
12BJ1A0462	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	49	2
12BJ1A0462	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	48	2
12BJ1A0463	R41026	INSTRUMENTATION	24	26	4
12BJ1A0463	R41041	OPTICAL COMMUNICATIONS	25	41	4
12BJ1A0463	R41042	EMBEDDED SYSTEMS	23	33	4
12BJ1A0463	R41043	DIGITAL IMAGE PROCESSING	24	3	0
12BJ1A0463	R41044	RADAR SYSTEMS	21	28	4
12BJ1A0463	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	32	4
12BJ1A0463	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0463	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	47	2
12BJ1A0464	R41026	INSTRUMENTATION	25	42	4
12BJ1A0464	R41041	OPTICAL COMMUNICATIONS	24	60	4
12BJ1A0464	R41042	EMBEDDED SYSTEMS	25	50	4
12BJ1A0464	R41043	DIGITAL IMAGE PROCESSING	24	35	4
12BJ1A0464	R41044	RADAR SYSTEMS	25	33	4
12BJ1A0464	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	30	4
12BJ1A0464	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0464	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	50	2
12BJ1A0465	R41026	INSTRUMENTATION	22	33	4
12BJ1A0465	R41041	OPTICAL COMMUNICATIONS	24	35	4
12BJ1A0465	R41042	EMBEDDED SYSTEMS	23	37	4
12BJ1A0465	R41043	DIGITAL IMAGE PROCESSING	22	27	4
12BJ1A0465	R41044	RADAR SYSTEMS	24	41	4
12BJ1A0465	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	38	4
12BJ1A0465	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0465	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	44	2
12BJ1A0466	R41026	INSTRUMENTATION	21	41	4
12BJ1A0466	R41041	OPTICAL COMMUNICATIONS	23	36	4
12BJ1A0466	R41042	EMBEDDED SYSTEMS	21	45	4
12BJ1A0466	R41043	DIGITAL IMAGE PROCESSING	23	34	4
12BJ1A0466	R41044	RADAR SYSTEMS	20	33	4
12BJ1A0466	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	42	4



Htno	Subcode	Subname	Internal	External	credits
12BJ1A0466	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0466	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	43	2
12BJ1A0467	R41026	INSTRUMENTATION	22	36	4
12BJ1A0467	R41041	OPTICAL COMMUNICATIONS	23	47	4
12BJ1A0467	R41042	EMBEDDED SYSTEMS	20	39	4
12BJ1A0467	R41043	DIGITAL IMAGE PROCESSING	24	26	4
12BJ1A0467	R41044	RADAR SYSTEMS	22	35	4
12BJ1A0467	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	51	4
12BJ1A0467	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0467	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	42	2
12BJ1A0468	R41026	INSTRUMENTATION	25	26	4
12BJ1A0468	R41041	OPTICAL COMMUNICATIONS	22	39	4
12BJ1A0468	R41042	EMBEDDED SYSTEMS	23	36	4
12BJ1A0468	R41043	DIGITAL IMAGE PROCESSING	24	26	4
12BJ1A0468	R41044	RADAR SYSTEMS	22	18	0
12BJ1A0468	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	16	0
12BJ1A0468	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0468	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
12BJ1A0469	R41026	INSTRUMENTATION	23	13	0
12BJ1A0469	R41041	OPTICAL COMMUNICATIONS	23	15	0
12BJ1A0469	R41042	EMBEDDED SYSTEMS	24	30	4
12BJ1A0469	R41043	DIGITAL IMAGE PROCESSING	22	27	4
12BJ1A0469	R41044	RADAR SYSTEMS	22	16	0
12BJ1A0469	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	25	35	4
12BJ1A0469	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0469	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	48	2
12BJ1A0470	R41026	INSTRUMENTATION	25	31	4
12BJ1A0470	R41041	OPTICAL COMMUNICATIONS	24	37	4
12BJ1A0470	R41042	EMBEDDED SYSTEMS	22	68	4
12BJ1A0470	R41043	DIGITAL IMAGE PROCESSING	25	36	4
12BJ1A0470	R41044	RADAR SYSTEMS	22	42	4
12BJ1A0470	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	28	4
12BJ1A0470	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	48	2
12BJ1A0470	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	47	2
12BJ1A0471	R41026	INSTRUMENTATION	23	35	4
12BJ1A0471	R41041	OPTICAL COMMUNICATIONS	25	44	4
12BJ1A0471	R41042	EMBEDDED SYSTEMS	21	43	4
12BJ1A0471	R41043	DIGITAL IMAGE PROCESSING	22	9	0
12BJ1A0471	R41044	RADAR SYSTEMS	23	35	4
12BJ1A0471	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	25	52	4
12BJ1A0471	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0471	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
12BJ1A0472	R41026	INSTRUMENTATION	18	26	4
12BJ1A0472	R41041	OPTICAL COMMUNICATIONS	21	45	4
12BJ1A0472	R41042	EMBEDDED SYSTEMS	20	33	4
12BJ1A0472	R41043	DIGITAL IMAGE PROCESSING	22	26	4
12BJ1A0472	R41044	RADAR SYSTEMS	22	37	4
12BJ1A0472	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	26	4
12BJ1A0472	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	48	2
12BJ1A0472	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	44	2
12BJ1A0473	R41026	INSTRUMENTATION	24	32	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0473	R41041	OPTICAL COMMUNICATIONS	21	38	4
12BJ1A0473	R41042	EMBEDDED SYSTEMS	25	44	4
12BJ1A0473	R41043	DIGITAL IMAGE PROCESSING	24	43	4
12BJ1A0473	R41044	RADAR SYSTEMS	22	42	4
12BJ1A0473	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	44	4
12BJ1A0473	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0473	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
12BJ1A0474	R41026	INSTRUMENTATION	22	32	4
12BJ1A0474	R41041	OPTICAL COMMUNICATIONS	17	45	4
12BJ1A0474	R41042	EMBEDDED SYSTEMS	22	44	4
12BJ1A0474	R41043	DIGITAL IMAGE PROCESSING	24	34	4
12BJ1A0474	R41044	RADAR SYSTEMS	20	27	4
12BJ1A0474	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	30	4
12BJ1A0474	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0474	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	42	2
12BJ1A0475	R41026	INSTRUMENTATION	25	42	4
12BJ1A0475	R41041	OPTICAL COMMUNICATIONS	21	39	4
12BJ1A0475	R41042	EMBEDDED SYSTEMS	24	41	4
12BJ1A0475	R41043	DIGITAL IMAGE PROCESSING	24	27	4
12BJ1A0475	R41044	RADAR SYSTEMS	24	43	4
12BJ1A0475	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	24	53	4
12BJ1A0475	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	49	2
12BJ1A0475	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	43	2
12BJ1A0476	R41026	INSTRUMENTATION	18	22	0
12BJ1A0476	R41041	OPTICAL COMMUNICATIONS	20	43	4
12BJ1A0476	R41042	EMBEDDED SYSTEMS	20	45	4
12BJ1A0476	R41043	DIGITAL IMAGE PROCESSING	21	26	4
12BJ1A0476	R41044	RADAR SYSTEMS	24	26	4
12BJ1A0476	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	18	0
12BJ1A0476	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A0476	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	44	2
12BJ1A0477	R41026	INSTRUMENTATION	22	32	4
12BJ1A0477	R41041	OPTICAL COMMUNICATIONS	20	30	4
12BJ1A0477	R41042	EMBEDDED SYSTEMS	24	34	4
12BJ1A0477	R41043	DIGITAL IMAGE PROCESSING	25	27	4
12BJ1A0477	R41044	RADAR SYSTEMS	21	38	4
12BJ1A0477	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	25	45	4
12BJ1A0477	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0477	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	48	2
12BJ1A0478	R41026	INSTRUMENTATION	25	45	4
12BJ1A0478	R41041	OPTICAL COMMUNICATIONS	20	50	4
12BJ1A0478	R41042	EMBEDDED SYSTEMS	22	26	4
12BJ1A0478	R41043	DIGITAL IMAGE PROCESSING	23	30	4
12BJ1A0478	R41044	RADAR SYSTEMS	23	35	4
12BJ1A0478	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	32	4
12BJ1A0478	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A0478	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12BJ1A0479	R41026	INSTRUMENTATION	20	28	4
12BJ1A0479	R41041	OPTICAL COMMUNICATIONS	20	54	4
12BJ1A0479	R41042	EMBEDDED SYSTEMS	19	34	4
12BJ1A0479	R41043	DIGITAL IMAGE PROCESSING	21	10	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0479	R41044	RADAR SYSTEMS	22	28	4
12BJ1A0479	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	39	4
12BJ1A0479	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0479	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	48	2
12BJ1A0480	R41026	INSTRUMENTATION	18	14	0
12BJ1A0480	R41041	OPTICAL COMMUNICATIONS	14	44	4
12BJ1A0480	R41042	EMBEDDED SYSTEMS	19	39	4
12BJ1A0480	R41043	DIGITAL IMAGE PROCESSING	21	0	0
12BJ1A0480	R41044	RADAR SYSTEMS	20	10	0
12BJ1A0480	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	26	4
12BJ1A0480	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	48	2
12BJ1A0480	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12BJ1A0481	R41026	INSTRUMENTATION	18	8	0
12BJ1A0481	R41041	OPTICAL COMMUNICATIONS	16	30	4
12BJ1A0481	R41042	EMBEDDED SYSTEMS	18	30	4
12BJ1A0481	R41043	DIGITAL IMAGE PROCESSING	20	11	0
12BJ1A0481	R41044	RADAR SYSTEMS	21	28	4
12BJ1A0481	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	8	0
12BJ1A0481	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A0481	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	47	2
12BJ1A0482	R41026	INSTRUMENTATION	0	0	0
12BJ1A0482	R41041	OPTICAL COMMUNICATIONS	15	11	0
12BJ1A0482	R41042	EMBEDDED SYSTEMS	14	2	0
12BJ1A0482	R41043	DIGITAL IMAGE PROCESSING	23	1	0
12BJ1A0482	R41044	RADAR SYSTEMS	19	7	0
12BJ1A0482	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	2	0
12BJ1A0482	R4104B	DIGITAL SIGNAL PROCESSING LAB	15	40	2
12BJ1A0482	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	40	2
12BJ1A0483	R41026	INSTRUMENTATION	15	3	0
12BJ1A0483	R41041	OPTICAL COMMUNICATIONS	18	5	0
12BJ1A0483	R41042	EMBEDDED SYSTEMS	12	2	0
12BJ1A0483	R41043	DIGITAL IMAGE PROCESSING	19	0	0
12BJ1A0483	R41044	RADAR SYSTEMS	15	0	0
12BJ1A0483	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	14	2	0
12BJ1A0483	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	40	2
12BJ1A0483	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	45	2
12BJ1A0484	R41026	INSTRUMENTATION	18	9	0
12BJ1A0484	R41041	OPTICAL COMMUNICATIONS	16	11	0
12BJ1A0484	R41042	EMBEDDED SYSTEMS	18	18	0
12BJ1A0484	R41043	DIGITAL IMAGE PROCESSING	23	0	0
12BJ1A0484	R41044	RADAR SYSTEMS	19	9	0
12BJ1A0484	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	12	0
12BJ1A0484	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0484	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12BJ1A0485	R41026	INSTRUMENTATION	21	26	4
12BJ1A0485	R41041	OPTICAL COMMUNICATIONS	22	28	4
12BJ1A0485	R41042	EMBEDDED SYSTEMS	21	29	4
12BJ1A0485	R41043	DIGITAL IMAGE PROCESSING	23	32	4
12BJ1A0485	R41044	RADAR SYSTEMS	23	16	0
12BJ1A0485	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	35	4
12BJ1A0485	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0485	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	45	2
12BJ1A0486	R41026	INSTRUMENTATION	21	40	4
12BJ1A0486	R41041	OPTICAL COMMUNICATIONS	17	36	4
12BJ1A0486	R41042	EMBEDDED SYSTEMS	21	38	4
12BJ1A0486	R41043	DIGITAL IMAGE PROCESSING	22	30	4
12BJ1A0486	R41044	RADAR SYSTEMS	18	5	0
12BJ1A0486	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	26	4
12BJ1A0486	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0486	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	46	2
12BJ1A0487	R41026	INSTRUMENTATION	22	33	4
12BJ1A0487	R41041	OPTICAL COMMUNICATIONS	17	43	4
12BJ1A0487	R41042	EMBEDDED SYSTEMS	20	40	4
12BJ1A0487	R41043	DIGITAL IMAGE PROCESSING	22	11	0
12BJ1A0487	R41044	RADAR SYSTEMS	22	28	4
12BJ1A0487	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	50	4
12BJ1A0487	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	48	2
12BJ1A0487	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	40	2
12BJ1A0488	R41026	INSTRUMENTATION	23	35	4
12BJ1A0488	R41041	OPTICAL COMMUNICATIONS	20	57	4
12BJ1A0488	R41042	EMBEDDED SYSTEMS	20	40	4
12BJ1A0488	R41043	DIGITAL IMAGE PROCESSING	21	29	4
12BJ1A0488	R41044	RADAR SYSTEMS	23	41	4
12BJ1A0488	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	30	4
12BJ1A0488	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0488	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	40	2
12BJ1A0489	R41026	INSTRUMENTATION	19	0	0
12BJ1A0489	R41041	OPTICAL COMMUNICATIONS	16	7	0
12BJ1A0489	R41042	EMBEDDED SYSTEMS	12	2	0
12BJ1A0489	R41043	DIGITAL IMAGE PROCESSING	20	3	0
12BJ1A0489	R41044	RADAR SYSTEMS	15	0	0
12BJ1A0489	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	0	0
12BJ1A0489	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0489	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	21	40	2
12BJ1A0490	R41026	INSTRUMENTATION	16	12	0
12BJ1A0490	R41041	OPTICAL COMMUNICATIONS	16	26	4
12BJ1A0490	R41042	EMBEDDED SYSTEMS	16	14	0
12BJ1A0490	R41043	DIGITAL IMAGE PROCESSING	18	9	0
12BJ1A0490	R41044	RADAR SYSTEMS	17	16	0
12BJ1A0490	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	21	0
12BJ1A0490	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A0490	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	41	2
12BJ1A0491	R41026	INSTRUMENTATION	18	26	4
12BJ1A0491	R41041	OPTICAL COMMUNICATIONS	22	35	4
12BJ1A0491	R41042	EMBEDDED SYSTEMS	19	37	4
12BJ1A0491	R41043	DIGITAL IMAGE PROCESSING	22	26	4
12BJ1A0491	R41044	RADAR SYSTEMS	21	27	4
12BJ1A0491	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	36	4
12BJ1A0491	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0491	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	47	2
12BJ1A0492	R41026	INSTRUMENTATION	16	18	0
12BJ1A0492	R41041	OPTICAL COMMUNICATIONS	14	51	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0492	R41042	EMBEDDED SYSTEMS	19	30	4
12BJ1A0492	R41043	DIGITAL IMAGE PROCESSING	22	26	4
12BJ1A0492	R41044	RADAR SYSTEMS	20	12	0
12BJ1A0492	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	16	0
12BJ1A0492	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0492	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	42	2
12BJ1A0493	R41026	INSTRUMENTATION	14	11	0
12BJ1A0493	R41041	OPTICAL COMMUNICATIONS	18	13	0
12BJ1A0493	R41042	EMBEDDED SYSTEMS	14	36	4
12BJ1A0493	R41043	DIGITAL IMAGE PROCESSING	20	11	0
12BJ1A0493	R41044	RADAR SYSTEMS	19	4	0
12BJ1A0493	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	26	4
12BJ1A0493	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A0493	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	42	2
12BJ1A0494	R41026	INSTRUMENTATION	19	11	0
12BJ1A0494	R41041	OPTICAL COMMUNICATIONS	11	-1	0
12BJ1A0494	R41042	EMBEDDED SYSTEMS	8	39	4
12BJ1A0494	R41043	DIGITAL IMAGE PROCESSING	21	7	0
12BJ1A0494	R41044	RADAR SYSTEMS	17	6	0
12BJ1A0494	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	8	0
12BJ1A0494	R4104B	DIGITAL SIGNAL PROCESSING LAB	14	40	2
12BJ1A0494	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	14	40	2
12BJ1A0496	R41026	INSTRUMENTATION	20	30	4
12BJ1A0496	R41041	OPTICAL COMMUNICATIONS	23	51	4
12BJ1A0496	R41042	EMBEDDED SYSTEMS	22	41	4
12BJ1A0496	R41043	DIGITAL IMAGE PROCESSING	23	12	0
12BJ1A0496	R41044	RADAR SYSTEMS	18	33	4
12BJ1A0496	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	44	4
12BJ1A0496	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A0496	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	50	2
12BJ1A0497	R41026	INSTRUMENTATION	19	28	4
12BJ1A0497	R41041	OPTICAL COMMUNICATIONS	17	40	4
12BJ1A0497	R41042	EMBEDDED SYSTEMS	19	41	4
12BJ1A0497	R41043	DIGITAL IMAGE PROCESSING	19	12	0
12BJ1A0497	R41044	RADAR SYSTEMS	16	29	4
12BJ1A0497	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	26	4
12BJ1A0497	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A0497	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	40	2
12BJ1A0498	R41026	INSTRUMENTATION	18	34	4
12BJ1A0498	R41041	OPTICAL COMMUNICATIONS	18	31	4
12BJ1A0498	R41042	EMBEDDED SYSTEMS	22	46	4
12BJ1A0498	R41043	DIGITAL IMAGE PROCESSING	19	28	4
12BJ1A0498	R41044	RADAR SYSTEMS	17	45	4
12BJ1A0498	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	36	4
12BJ1A0498	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A0498	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	43	2
12BJ1A0499	R41026	INSTRUMENTATION	4	-1	0
12BJ1A0499	R41041	OPTICAL COMMUNICATIONS	11	-1	0
12BJ1A0499	R41042	EMBEDDED SYSTEMS	10	-1	0
12BJ1A0499	R41043	DIGITAL IMAGE PROCESSING	0	-1	0
12BJ1A0499	R41044	RADAR SYSTEMS	12	-1	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0499	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	-1	0
12BJ1A0499	R4104B	DIGITAL SIGNAL PROCESSING LAB	14	-1	0
12BJ1A0499	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	14	-1	0
12BJ1A04A0	R41026	INSTRUMENTATION	0	-1	0
12BJ1A04A0	R41041	OPTICAL COMMUNICATIONS	0	-1	0
12BJ1A04A0	R41042	EMBEDDED SYSTEMS	0	-1	0
12BJ1A04A0	R41043	DIGITAL IMAGE PROCESSING	0	-1	0
12BJ1A04A0	R41044	RADAR SYSTEMS	0	-1	0
12BJ1A04A0	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	-1	0
12BJ1A04A0	R4104B	DIGITAL SIGNAL PROCESSING LAB	13	-1	0
12BJ1A04A0	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	13	-1	0
12BJ1A04A1	R41026	INSTRUMENTATION	18	32	4
12BJ1A04A1	R41041	OPTICAL COMMUNICATIONS	18	50	4
12BJ1A04A1	R41042	EMBEDDED SYSTEMS	20	38	4
12BJ1A04A1	R41043	DIGITAL IMAGE PROCESSING	22	28	4
12BJ1A04A1	R41044	RADAR SYSTEMS	20	32	4
12BJ1A04A1	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	30	4
12BJ1A04A1	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A04A1	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	42	2
12BJ1A04A2	R41026	INSTRUMENTATION	17	26	4
12BJ1A04A2	R41041	OPTICAL COMMUNICATIONS	21	29	4
12BJ1A04A2	R41042	EMBEDDED SYSTEMS	17	27	4
12BJ1A04A2	R41043	DIGITAL IMAGE PROCESSING	21	11	0
12BJ1A04A2	R41044	RADAR SYSTEMS	15	20	0
12BJ1A04A2	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	27	4
12BJ1A04A2	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A04A2	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	40	2
12BJ1A04A3	R41026	INSTRUMENTATION	21	0	0
12BJ1A04A3	R41041	OPTICAL COMMUNICATIONS	20	13	0
12BJ1A04A3	R41042	EMBEDDED SYSTEMS	18	16	0
12BJ1A04A3	R41043	DIGITAL IMAGE PROCESSING	20	4	0
12BJ1A04A3	R41044	RADAR SYSTEMS	18	17	0
12BJ1A04A3	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	20	0
12BJ1A04A3	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04A3	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	42	2
12BJ1A04A4	R41026	INSTRUMENTATION	0	26	0
12BJ1A04A4	R41041	OPTICAL COMMUNICATIONS	15	13	0
12BJ1A04A4	R41042	EMBEDDED SYSTEMS	15	15	0
12BJ1A04A4	R41043	DIGITAL IMAGE PROCESSING	22	3	0
12BJ1A04A4	R41044	RADAR SYSTEMS	16	13	0
12BJ1A04A4	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	41	4
12BJ1A04A4	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04A4	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	40	2
12BJ1A04A5	R41026	INSTRUMENTATION	17	8	0
12BJ1A04A5	R41041	OPTICAL COMMUNICATIONS	17	11	0
12BJ1A04A5	R41042	EMBEDDED SYSTEMS	23	10	0
12BJ1A04A5	R41043	DIGITAL IMAGE PROCESSING	22	3	0
12BJ1A04A5	R41044	RADAR SYSTEMS	20	5	0
12BJ1A04A5	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	0	0
12BJ1A04A5	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04A5	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	43	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A04A6	R41026	INSTRUMENTATION	22	37	4
12BJ1A04A6	R41041	OPTICAL COMMUNICATIONS	23	42	4
12BJ1A04A6	R41042	EMBEDDED SYSTEMS	24	48	4
12BJ1A04A6	R41043	DIGITAL IMAGE PROCESSING	23	46	4
12BJ1A04A6	R41044	RADAR SYSTEMS	23	54	4
12BJ1A04A6	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	39	4
12BJ1A04A6	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	47	2
12BJ1A04A6	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	45	2
12BJ1A04A7	R41026	INSTRUMENTATION	24	0	0
12BJ1A04A7	R41041	OPTICAL COMMUNICATIONS	19	35	4
12BJ1A04A7	R41042	EMBEDDED SYSTEMS	21	27	4
12BJ1A04A7	R41043	DIGITAL IMAGE PROCESSING	23	17	0
12BJ1A04A7	R41044	RADAR SYSTEMS	19	30	4
12BJ1A04A7	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	7	0
12BJ1A04A7	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04A7	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	42	2
12BJ1A04A8	R41026	INSTRUMENTATION	22	33	4
12BJ1A04A8	R41041	OPTICAL COMMUNICATIONS	22	46	4
12BJ1A04A8	R41042	EMBEDDED SYSTEMS	24	44	4
12BJ1A04A8	R41043	DIGITAL IMAGE PROCESSING	20	27	4
12BJ1A04A8	R41044	RADAR SYSTEMS	21	39	4
12BJ1A04A8	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	43	4
12BJ1A04A8	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	47	2
12BJ1A04A8	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	46	2
12BJ1A04A9	R41026	INSTRUMENTATION	23	36	4
12BJ1A04A9	R41041	OPTICAL COMMUNICATIONS	20	48	4
12BJ1A04A9	R41042	EMBEDDED SYSTEMS	21	37	4
12BJ1A04A9	R41043	DIGITAL IMAGE PROCESSING	21	6	0
12BJ1A04A9	R41044	RADAR SYSTEMS	13	27	4
12BJ1A04A9	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	38	4
12BJ1A04A9	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	50	2
12BJ1A04A9	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	46	2
12BJ1A04B1	R41026	INSTRUMENTATION	16	9	0
12BJ1A04B1	R41041	OPTICAL COMMUNICATIONS	14	-1	0
12BJ1A04B1	R41042	EMBEDDED SYSTEMS	19	15	0
12BJ1A04B1	R41043	DIGITAL IMAGE PROCESSING	18	5	0
12BJ1A04B1	R41044	RADAR SYSTEMS	16	0	0
12BJ1A04B1	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	26	4
12BJ1A04B1	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	48	2
12BJ1A04B1	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	44	2
12BJ1A04B2	R41026	INSTRUMENTATION	19	4	0
12BJ1A04B2	R41041	OPTICAL COMMUNICATIONS	12	31	4
12BJ1A04B2	R41042	EMBEDDED SYSTEMS	12	0	0
12BJ1A04B2	R41043	DIGITAL IMAGE PROCESSING	20	2	0
12BJ1A04B2	R41044	RADAR SYSTEMS	9	3	0
12BJ1A04B2	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	15	0
12BJ1A04B2	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04B2	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	40	2
12BJ1A04B3	R41026	INSTRUMENTATION	16	3	0
12BJ1A04B3	R41041	OPTICAL COMMUNICATIONS	13	28	4
12BJ1A04B3	R41042	EMBEDDED SYSTEMS	19	30	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A04B3	R41043	DIGITAL IMAGE PROCESSING	19	5	0
12BJ1A04B3	R41044	RADAR SYSTEMS	14	28	4
12BJ1A04B3	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	35	4
12BJ1A04B3	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04B3	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	46	2
12BJ1A04B4	R41026	INSTRUMENTATION	0	-1	0
12BJ1A04B4	R41041	OPTICAL COMMUNICATIONS	0	-1	0
12BJ1A04B4	R41042	EMBEDDED SYSTEMS	0	-1	0
12BJ1A04B4	R41043	DIGITAL IMAGE PROCESSING	0	-1	0
12BJ1A04B4	R41044	RADAR SYSTEMS	0	-1	0
12BJ1A04B4	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	-1	0
12BJ1A04B4	R4104B	DIGITAL SIGNAL PROCESSING LAB	0	-1	0
12BJ1A04B4	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	13	-1	0
12BJ1A04B7	R41026	INSTRUMENTATION	24	34	4
12BJ1A04B7	R41041	OPTICAL COMMUNICATIONS	24	31	4
12BJ1A04B7	R41042	EMBEDDED SYSTEMS	24	42	4
12BJ1A04B7	R41043	DIGITAL IMAGE PROCESSING	22	28	4
12BJ1A04B7	R41044	RADAR SYSTEMS	24	5	0
12BJ1A04B7	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	41	4
12BJ1A04B7	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A04B7	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	50	2
12BJ1A04B8	R41026	INSTRUMENTATION	22	9	0
12BJ1A04B8	R41041	OPTICAL COMMUNICATIONS	14	29	4
12BJ1A04B8	R41042	EMBEDDED SYSTEMS	19	41	4
12BJ1A04B8	R41043	DIGITAL IMAGE PROCESSING	22	31	4
12BJ1A04B8	R41044	RADAR SYSTEMS	15	27	4
12BJ1A04B8	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	28	4
12BJ1A04B8	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04B8	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	40	2
12BJ1A04B9	R41026	INSTRUMENTATION	21	10	0
12BJ1A04B9	R41041	OPTICAL COMMUNICATIONS	20	41	4
12BJ1A04B9	R41042	EMBEDDED SYSTEMS	21	31	4
12BJ1A04B9	R41043	DIGITAL IMAGE PROCESSING	22	26	4
12BJ1A04B9	R41044	RADAR SYSTEMS	22	28	4
12BJ1A04B9	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	48	4
12BJ1A04B9	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A04B9	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	45	2
12BJ1A04C1	R41026	INSTRUMENTATION	24	32	4
12BJ1A04C1	R41041	OPTICAL COMMUNICATIONS	23	45	4
12BJ1A04C1	R41042	EMBEDDED SYSTEMS	24	35	4
12BJ1A04C1	R41043	DIGITAL IMAGE PROCESSING	23	28	4
12BJ1A04C1	R41044	RADAR SYSTEMS	25	33	4
12BJ1A04C1	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	44	4
12BJ1A04C1	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A04C1	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	50	2
12BJ1A04C2	R41026	INSTRUMENTATION	22	48	4
12BJ1A04C2	R41041	OPTICAL COMMUNICATIONS	24	37	4
12BJ1A04C2	R41042	EMBEDDED SYSTEMS	25	46	4
12BJ1A04C2	R41043	DIGITAL IMAGE PROCESSING	24	28	4
12BJ1A04C2	R41044	RADAR SYSTEMS	24	46	4
12BJ1A04C2	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	51	4



Htno	Subcode	Subname	Internal	External	credits
12BJ1A04C2	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A04C2	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	47	2
12BJ1A04C4	R41026	INSTRUMENTATION	23	43	4
12BJ1A04C4	R41041	OPTICAL COMMUNICATIONS	23	56	4
12BJ1A04C4	R41042	EMBEDDED SYSTEMS	23	56	4
12BJ1A04C4	R41043	DIGITAL IMAGE PROCESSING	23	41	4
12BJ1A04C4	R41044	RADAR SYSTEMS	23	45	4
12BJ1A04C4	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	43	4
12BJ1A04C4	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A04C4	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
12BJ1A04C5	R41026	INSTRUMENTATION	22	26	4
12BJ1A04C5	R41041	OPTICAL COMMUNICATIONS	24	39	4
12BJ1A04C5	R41042	EMBEDDED SYSTEMS	24	36	4
12BJ1A04C5	R41043	DIGITAL IMAGE PROCESSING	24	26	4
12BJ1A04C5	R41044	RADAR SYSTEMS	24	30	4
12BJ1A04C5	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	45	4
12BJ1A04C5	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A04C5	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	46	2
12BJ1A04C6	R41026	INSTRUMENTATION	24	37	4
12BJ1A04C6	R41041	OPTICAL COMMUNICATIONS	24	45	4
12BJ1A04C6	R41042	EMBEDDED SYSTEMS	23	46	4
12BJ1A04C6	R41043	DIGITAL IMAGE PROCESSING	20	36	4
12BJ1A04C6	R41044	RADAR SYSTEMS	24	27	4
12BJ1A04C6	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	24	31	4
12BJ1A04C6	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A04C6	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
12BJ1A04C7	R41026	INSTRUMENTATION	24	26	4
12BJ1A04C7	R41041	OPTICAL COMMUNICATIONS	24	33	4
12BJ1A04C7	R41042	EMBEDDED SYSTEMS	23	39	4
12BJ1A04C7	R41043	DIGITAL IMAGE PROCESSING	25	30	4
12BJ1A04C7	R41044	RADAR SYSTEMS	24	38	4
12BJ1A04C7	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	47	4
12BJ1A04C7	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A04C7	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	46	2
12BJ1A04C8	R41026	INSTRUMENTATION	22	41	4
12BJ1A04C8	R41041	OPTICAL COMMUNICATIONS	23	55	4
12BJ1A04C8	R41042	EMBEDDED SYSTEMS	21	44	4
12BJ1A04C8	R41043	DIGITAL IMAGE PROCESSING	23	17	0
12BJ1A04C8	R41044	RADAR SYSTEMS	23	26	4
12BJ1A04C8	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	34	4
12BJ1A04C8	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	47	2
12BJ1A04C8	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	48	2
12BJ1A04C9	R41026	INSTRUMENTATION	24	29	4
12BJ1A04C9	R41041	OPTICAL COMMUNICATIONS	22	44	4
12BJ1A04C9	R41042	EMBEDDED SYSTEMS	24	37	4
12BJ1A04C9	R41043	DIGITAL IMAGE PROCESSING	23	8	0
12BJ1A04C9	R41044	RADAR SYSTEMS	21	28	4
12BJ1A04C9	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	22	43	4
12BJ1A04C9	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
12BJ1A04C9	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	42	2
12BJ1A04D0	R41026	INSTRUMENTATION	22	40	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A04D0	R41041	OPTICAL COMMUNICATIONS	24	53	4
12BJ1A04D0	R41042	EMBEDDED SYSTEMS	23	36	4
12BJ1A04D0	R41043	DIGITAL IMAGE PROCESSING	22	35	4
12BJ1A04D0	R41044	RADAR SYSTEMS	23	38	4
12BJ1A04D0	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	36	4
12BJ1A04D0	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
12BJ1A04D0	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
12BJ1A04D1	R41026	INSTRUMENTATION	25	15	0
12BJ1A04D1	R41041	OPTICAL COMMUNICATIONS	25	31	4
12BJ1A04D1	R41042	EMBEDDED SYSTEMS	19	44	4
12BJ1A04D1	R41043	DIGITAL IMAGE PROCESSING	18	2	0
12BJ1A04D1	R41044	RADAR SYSTEMS	20	31	4
12BJ1A04D1	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	28	4
12BJ1A04D1	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04D1	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	41	2
12BJ1A04D2	R41026	INSTRUMENTATION	22	0	0
12BJ1A04D2	R41041	OPTICAL COMMUNICATIONS	17	28	4
12BJ1A04D2	R41042	EMBEDDED SYSTEMS	20	9	0
12BJ1A04D2	R41043	DIGITAL IMAGE PROCESSING	24	2	0
12BJ1A04D2	R41044	RADAR SYSTEMS	18	8	0
12BJ1A04D2	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	10	0
12BJ1A04D2	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04D2	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	40	2
12BJ1A04D3	R41026	INSTRUMENTATION	0	-1	0
12BJ1A04D3	R41041	OPTICAL COMMUNICATIONS	0	-1	0
12BJ1A04D3	R41042	EMBEDDED SYSTEMS	0	-1	0
12BJ1A04D3	R41043	DIGITAL IMAGE PROCESSING	0	-1	0
12BJ1A04D3	R41044	RADAR SYSTEMS	0	-1	0
12BJ1A04D3	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	-1	0
12BJ1A04D3	R4104B	DIGITAL SIGNAL PROCESSING LAB	15	-1	0
12BJ1A04D3	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	13	-1	0
12BJ1A04D4	R41026	INSTRUMENTATION	19	35	4
12BJ1A04D4	R41041	OPTICAL COMMUNICATIONS	14	46	4
12BJ1A04D4	R41042	EMBEDDED SYSTEMS	19	36	4
12BJ1A04D4	R41043	DIGITAL IMAGE PROCESSING	23	6	0
12BJ1A04D4	R41044	RADAR SYSTEMS	16	28	4
12BJ1A04D4	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	30	4
12BJ1A04D4	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	48	2
12BJ1A04D4	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	40	2
12BJ1A04D5	R41026	INSTRUMENTATION	24	12	0
12BJ1A04D5	R41041	OPTICAL COMMUNICATIONS	23	10	0
12BJ1A04D5	R41042	EMBEDDED SYSTEMS	21	18	0
12BJ1A04D5	R41043	DIGITAL IMAGE PROCESSING	21	10	0
12BJ1A04D5	R41044	RADAR SYSTEMS	19	11	0
12BJ1A04D5	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	24	26	4
12BJ1A04D5	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	47	2
12BJ1A04D5	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	47	2
12BJ1A04D6	R41026	INSTRUMENTATION	19	37	4
12BJ1A04D6	R41041	OPTICAL COMMUNICATIONS	16	35	4
12BJ1A04D6	R41042	EMBEDDED SYSTEMS	13	39	4
12BJ1A04D6	R41043	DIGITAL IMAGE PROCESSING	22	10	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A04D6	R41044	RADAR SYSTEMS	19	16	0
12BJ1A04D6	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	31	4
12BJ1A04D6	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	48	2
12BJ1A04D6	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	46	2
12BJ1A04D7	R41026	INSTRUMENTATION	20	31	4
12BJ1A04D7	R41041	OPTICAL COMMUNICATIONS	21	52	4
12BJ1A04D7	R41042	EMBEDDED SYSTEMS	17	28	4
12BJ1A04D7	R41043	DIGITAL IMAGE PROCESSING	21	5	0
12BJ1A04D7	R41044	RADAR SYSTEMS	20	34	4
12BJ1A04D7	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	16	51	4
12BJ1A04D7	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
12BJ1A04D7	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	45	2
12BJ1A04D8	R41026	INSTRUMENTATION	24	39	4
12BJ1A04D8	R41041	OPTICAL COMMUNICATIONS	23	50	4
12BJ1A04D8	R41042	EMBEDDED SYSTEMS	21	38	4
12BJ1A04D8	R41043	DIGITAL IMAGE PROCESSING	24	26	4
12BJ1A04D8	R41044	RADAR SYSTEMS	23	30	4
12BJ1A04D8	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	30	4
12BJ1A04D8	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
12BJ1A04D8	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	45	2
12BJ1A04D9	R41026	INSTRUMENTATION	21	26	4
12BJ1A04D9	R41041	OPTICAL COMMUNICATIONS	22	29	4
12BJ1A04D9	R41042	EMBEDDED SYSTEMS	21	35	4
12BJ1A04D9	R41043	DIGITAL IMAGE PROCESSING	23	27	4
12BJ1A04D9	R41044	RADAR SYSTEMS	18	30	4
12BJ1A04D9	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	28	4
12BJ1A04D9	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
12BJ1A04D9	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	42	2
12BJ1A04E1	R41026	INSTRUMENTATION	0	-1	0
12BJ1A04E1	R41041	OPTICAL COMMUNICATIONS	0	-1	0
12BJ1A04E1	R41042	EMBEDDED SYSTEMS	0	-1	0
12BJ1A04E1	R41043	DIGITAL IMAGE PROCESSING	0	-1	0
12BJ1A04E1	R41044	RADAR SYSTEMS	0	-1	0
12BJ1A04E1	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	0	-1	0
12BJ1A04E1	R4104B	DIGITAL SIGNAL PROCESSING LAB	0	-1	0
12BJ1A04E1	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	0	-1	0
12BJ1A04E3	R41026	INSTRUMENTATION	14	28	4
12BJ1A04E3	R41041	OPTICAL COMMUNICATIONS	19	39	4
12BJ1A04E3	R41042	EMBEDDED SYSTEMS	17	11	0
12BJ1A04E3	R41043	DIGITAL IMAGE PROCESSING	15	8	0
12BJ1A04E3	R41044	RADAR SYSTEMS	17	16	0
12BJ1A04E3	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	15	30	4
12BJ1A04E3	R4104B	DIGITAL SIGNAL PROCESSING LAB	18	46	2
12BJ1A04E3	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	43	2
12BJ1A04E5	R41026	INSTRUMENTATION	23	37	4
12BJ1A04E5	R41041	OPTICAL COMMUNICATIONS	23	59	4
12BJ1A04E5	R41042	EMBEDDED SYSTEMS	21	42	4
12BJ1A04E5	R41043	DIGITAL IMAGE PROCESSING	23	4	0
12BJ1A04E5	R41044	RADAR SYSTEMS	22	33	4
12BJ1A04E5	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	6	0
12BJ1A04E5	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A04E5	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	22	43	2
12BJ1A04E6	R41026	INSTRUMENTATION	25	13	0
12BJ1A04E6	R41041	OPTICAL COMMUNICATIONS	20	39	4
12BJ1A04E6	R41042	EMBEDDED SYSTEMS	21	43	4
12BJ1A04E6	R41043	DIGITAL IMAGE PROCESSING	24	15	0
12BJ1A04E6	R41044	RADAR SYSTEMS	22	31	4
12BJ1A04E6	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	36	4
12BJ1A04E6	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	48	2
12BJ1A04E6	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	40	2
12BJ1A0501	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	31	4
12BJ1A0501	R41052	UML & DESIGN PATTERNS	20	44	4
12BJ1A0501	R41053	DATA WARE HOUSING AND DATA MINING	20	44	4
12BJ1A0501	R41054	MOBILE COMPUTING	22	45	4
12BJ1A0501	R41057	OPEN SOURCE SOFTWARE	24	36	4
12BJ1A0501	R4105B	SOFTWARE PROJECT MANAGEMENT	24	36	4
12BJ1A0501	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0501	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0502	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	26	4
12BJ1A0502	R41052	UML & DESIGN PATTERNS	18	38	4
12BJ1A0502	R41053	DATA WARE HOUSING AND DATA MINING	19	59	4
12BJ1A0502	R41054	MOBILE COMPUTING	21	33	4
12BJ1A0502	R41057	OPEN SOURCE SOFTWARE	23	40	4
12BJ1A0502	R4105B	SOFTWARE PROJECT MANAGEMENT	25	34	4
12BJ1A0502	R4105E	UML & DESIGN PATTERNS LAB	23	49	2
12BJ1A0502	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0503	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	28	4
12BJ1A0503	R41052	UML & DESIGN PATTERNS	20	45	4
12BJ1A0503	R41053	DATA WARE HOUSING AND DATA MINING	22	30	4
12BJ1A0503	R41054	MOBILE COMPUTING	24	34	4
12BJ1A0503	R41057	OPEN SOURCE SOFTWARE	23	54	4
12BJ1A0503	R4105B	SOFTWARE PROJECT MANAGEMENT	25	56	4
12BJ1A0503	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0503	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	47	2
12BJ1A0504	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	31	4
12BJ1A0504	R41052	UML & DESIGN PATTERNS	21	39	4
12BJ1A0504	R41053	DATA WARE HOUSING AND DATA MINING	23	45	4
12BJ1A0504	R41054	MOBILE COMPUTING	25	39	4
12BJ1A0504	R41057	OPEN SOURCE SOFTWARE	24	26	4
12BJ1A0504	R4105B	SOFTWARE PROJECT MANAGEMENT	24	41	4
12BJ1A0504	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0504	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0505	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	24	33	4
12BJ1A0505	R41052	UML & DESIGN PATTERNS	25	39	4
12BJ1A0505	R41053	DATA WARE HOUSING AND DATA MINING	24	42	4
12BJ1A0505	R41054	MOBILE COMPUTING	25	38	4
12BJ1A0505	R41057	OPEN SOURCE SOFTWARE	22	33	4
12BJ1A0505	R4105B	SOFTWARE PROJECT MANAGEMENT	24	40	4
12BJ1A0505	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0505	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0506	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	26	4
12BJ1A0506	R41052	UML & DESIGN PATTERNS	18	46	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0506	R41053	DATA WARE HOUSING AND DATA MINING	21	44	4
12BJ1A0506	R41054	MOBILE COMPUTING	22	11	0
12BJ1A0506	R41057	OPEN SOURCE SOFTWARE	25	38	4
12BJ1A0506	R4105B	SOFTWARE PROJECT MANAGEMENT	24	42	4
12BJ1A0506	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0506	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	47	2
12BJ1A0507	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	16	0
12BJ1A0507	R41052	UML & DESIGN PATTERNS	19	26	4
12BJ1A0507	R41053	DATA WARE HOUSING AND DATA MINING	17	30	4
12BJ1A0507	R41054	MOBILE COMPUTING	23	32	4
12BJ1A0507	R41057	OPEN SOURCE SOFTWARE	23	33	4
12BJ1A0507	R4105B	SOFTWARE PROJECT MANAGEMENT	24	26	4
12BJ1A0507	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0507	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0508	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	27	4
12BJ1A0508	R41052	UML & DESIGN PATTERNS	18	35	4
12BJ1A0508	R41053	DATA WARE HOUSING AND DATA MINING	22	39	4
12BJ1A0508	R41054	MOBILE COMPUTING	21	58	4
12BJ1A0508	R41057	OPEN SOURCE SOFTWARE	25	26	4
12BJ1A0508	R4105B	SOFTWARE PROJECT MANAGEMENT	23	32	4
12BJ1A0508	R4105E	UML & DESIGN PATTERNS LAB	24	48	2
12BJ1A0508	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	45	2
12BJ1A0509	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	33	4
12BJ1A0509	R41052	UML & DESIGN PATTERNS	16	40	4
12BJ1A0509	R41053	DATA WARE HOUSING AND DATA MINING	20	43	4
12BJ1A0509	R41054	MOBILE COMPUTING	17	46	4
12BJ1A0509	R41057	OPEN SOURCE SOFTWARE	18	35	4
12BJ1A0509	R4105B	SOFTWARE PROJECT MANAGEMENT	17	40	4
12BJ1A0509	R4105E	UML & DESIGN PATTERNS LAB	21	46	2
12BJ1A0509	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	45	2
12BJ1A0510	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	26	4
12BJ1A0510	R41052	UML & DESIGN PATTERNS	21	37	4
12BJ1A0510	R41053	DATA WARE HOUSING AND DATA MINING	22	37	4
12BJ1A0510	R41054	MOBILE COMPUTING	25	27	4
12BJ1A0510	R41057	OPEN SOURCE SOFTWARE	23	26	4
12BJ1A0510	R4105B	SOFTWARE PROJECT MANAGEMENT	22	48	4
12BJ1A0510	R4105E	UML & DESIGN PATTERNS LAB	22	47	2
12BJ1A0510	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	45	2
12BJ1A0511	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	24	10	0
12BJ1A0511	R41052	UML & DESIGN PATTERNS	21	34	4
12BJ1A0511	R41053	DATA WARE HOUSING AND DATA MINING	23	26	4
12BJ1A0511	R41054	MOBILE COMPUTING	23	13	0
12BJ1A0511	R41057	OPEN SOURCE SOFTWARE	24	38	4
12BJ1A0511	R4105B	SOFTWARE PROJECT MANAGEMENT	22	13	0
12BJ1A0511	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0511	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	46	2
12BJ1A0512	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	22	28	4
12BJ1A0512	R41052	UML & DESIGN PATTERNS	20	39	4
12BJ1A0512	R41053	DATA WARE HOUSING AND DATA MINING	23	35	4
12BJ1A0512	R41054	MOBILE COMPUTING	22	48	4
12BJ1A0512	R41057	OPEN SOURCE SOFTWARE	24	12	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0512	R4105B	SOFTWARE PROJECT MANAGEMENT	22	40	4
12BJ1A0512	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0512	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	46	2
12BJ1A0513	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	28	4
12BJ1A0513	R41052	UML & DESIGN PATTERNS	22	37	4
12BJ1A0513	R41053	DATA WARE HOUSING AND DATA MINING	21	45	4
12BJ1A0513	R41054	MOBILE COMPUTING	19	40	4
12BJ1A0513	R41057	OPEN SOURCE SOFTWARE	24	37	4
12BJ1A0513	R4105B	SOFTWARE PROJECT MANAGEMENT	23	42	4
12BJ1A0513	R4105E	UML & DESIGN PATTERNS LAB	25	49	2
12BJ1A0513	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	47	2
12BJ1A0514	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	41	4
12BJ1A0514	R41052	UML & DESIGN PATTERNS	23	43	4
12BJ1A0514	R41053	DATA WARE HOUSING AND DATA MINING	23	56	4
12BJ1A0514	R41054	MOBILE COMPUTING	25	28	4
12BJ1A0514	R41057	OPEN SOURCE SOFTWARE	25	51	4
12BJ1A0514	R4105B	SOFTWARE PROJECT MANAGEMENT	24	56	4
12BJ1A0514	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0514	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12BJ1A0515	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	34	4
12BJ1A0515	R41052	UML & DESIGN PATTERNS	16	30	4
12BJ1A0515	R41053	DATA WARE HOUSING AND DATA MINING	20	26	4
12BJ1A0515	R41054	MOBILE COMPUTING	21	34	4
12BJ1A0515	R41057	OPEN SOURCE SOFTWARE	18	38	4
12BJ1A0515	R4105B	SOFTWARE PROJECT MANAGEMENT	22	32	4
12BJ1A0515	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0515	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	46	2
12BJ1A0516	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	28	4
12BJ1A0516	R41052	UML & DESIGN PATTERNS	18	34	4
12BJ1A0516	R41053	DATA WARE HOUSING AND DATA MINING	23	43	4
12BJ1A0516	R41054	MOBILE COMPUTING	19	27	4
12BJ1A0516	R41057	OPEN SOURCE SOFTWARE	25	27	4
12BJ1A0516	R4105B	SOFTWARE PROJECT MANAGEMENT	22	40	4
12BJ1A0516	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0516	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	49	2
12BJ1A0517	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	37	4
12BJ1A0517	R41052	UML & DESIGN PATTERNS	22	45	4
12BJ1A0517	R41053	DATA WARE HOUSING AND DATA MINING	22	53	4
12BJ1A0517	R41054	MOBILE COMPUTING	18	42	4
12BJ1A0517	R41057	OPEN SOURCE SOFTWARE	21	44	4
12BJ1A0517	R4105B	SOFTWARE PROJECT MANAGEMENT	21	58	4
12BJ1A0517	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0517	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	45	2
12BJ1A0518	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	41	4
12BJ1A0518	R41052	UML & DESIGN PATTERNS	23	37	4
12BJ1A0518	R41053	DATA WARE HOUSING AND DATA MINING	22	57	4
12BJ1A0518	R41054	MOBILE COMPUTING	24	34	4
12BJ1A0518	R41057	OPEN SOURCE SOFTWARE	24	42	4
12BJ1A0518	R4105B	SOFTWARE PROJECT MANAGEMENT	24	47	4
12BJ1A0518	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0518	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0519	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	27	4
12BJ1A0519	R41052	UML & DESIGN PATTERNS	18	26	4
12BJ1A0519	R41053	DATA WARE HOUSING AND DATA MINING	18	27	4
12BJ1A0519	R41054	MOBILE COMPUTING	19	26	4
12BJ1A0519	R41057	OPEN SOURCE SOFTWARE	19	46	4
12BJ1A0519	R4105B	SOFTWARE PROJECT MANAGEMENT	24	12	0
12BJ1A0519	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0519	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	47	2
12BJ1A0520	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	33	4
12BJ1A0520	R41052	UML & DESIGN PATTERNS	17	35	4
12BJ1A0520	R41053	DATA WARE HOUSING AND DATA MINING	20	35	4
12BJ1A0520	R41054	MOBILE COMPUTING	21	27	4
12BJ1A0520	R41057	OPEN SOURCE SOFTWARE	22	27	4
12BJ1A0520	R4105B	SOFTWARE PROJECT MANAGEMENT	22	52	4
12BJ1A0520	R4105E	UML & DESIGN PATTERNS LAB	20	42	2
12BJ1A0520	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	43	2
12BJ1A0521	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	22	53	4
12BJ1A0521	R41052	UML & DESIGN PATTERNS	23	59	4
12BJ1A0521	R41053	DATA WARE HOUSING AND DATA MINING	23	53	4
12BJ1A0521	R41054	MOBILE COMPUTING	23	56	4
12BJ1A0521	R41057	OPEN SOURCE SOFTWARE	20	39	4
12BJ1A0521	R4105B	SOFTWARE PROJECT MANAGEMENT	24	61	4
12BJ1A0521	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0521	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	50	2
12BJ1A0522	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	39	4
12BJ1A0522	R41052	UML & DESIGN PATTERNS	19	60	4
12BJ1A0522	R41053	DATA WARE HOUSING AND DATA MINING	18	55	4
12BJ1A0522	R41054	MOBILE COMPUTING	21	28	4
12BJ1A0522	R41057	OPEN SOURCE SOFTWARE	23	35	4
12BJ1A0522	R4105B	SOFTWARE PROJECT MANAGEMENT	22	51	4
12BJ1A0522	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0522	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0523	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	22	33	4
12BJ1A0523	R41052	UML & DESIGN PATTERNS	17	32	4
12BJ1A0523	R41053	DATA WARE HOUSING AND DATA MINING	20	34	4
12BJ1A0523	R41054	MOBILE COMPUTING	24	8	0
12BJ1A0523	R41057	OPEN SOURCE SOFTWARE	24	31	4
12BJ1A0523	R4105B	SOFTWARE PROJECT MANAGEMENT	21	32	4
12BJ1A0523	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0523	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0524	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	45	4
12BJ1A0524	R41052	UML & DESIGN PATTERNS	20	47	4
12BJ1A0524	R41053	DATA WARE HOUSING AND DATA MINING	20	53	4
12BJ1A0524	R41054	MOBILE COMPUTING	24	40	4
12BJ1A0524	R41057	OPEN SOURCE SOFTWARE	22	39	4
12BJ1A0524	R4105B	SOFTWARE PROJECT MANAGEMENT	24	51	4
12BJ1A0524	R4105E	UML & DESIGN PATTERNS LAB	25	47	2
12BJ1A0524	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	43	2
12BJ1A0525	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	30	4
12BJ1A0525	R41052	UML & DESIGN PATTERNS	17	48	4
12BJ1A0525	R41053	DATA WARE HOUSING AND DATA MINING	20	50	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0525	R41054	MOBILE COMPUTING	24	40	4
12BJ1A0525	R41057	OPEN SOURCE SOFTWARE	21	31	4
12BJ1A0525	R4105B	SOFTWARE PROJECT MANAGEMENT	22	65	4
12BJ1A0525	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0525	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0526	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	22	39	4
12BJ1A0526	R41052	UML & DESIGN PATTERNS	23	51	4
12BJ1A0526	R41053	DATA WARE HOUSING AND DATA MINING	23	59	4
12BJ1A0526	R41054	MOBILE COMPUTING	23	34	4
12BJ1A0526	R41057	OPEN SOURCE SOFTWARE	21	59	4
12BJ1A0526	R4105B	SOFTWARE PROJECT MANAGEMENT	22	44	4
12BJ1A0526	R4105E	UML & DESIGN PATTERNS LAB	25	48	2
12BJ1A0526	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	48	2
12BJ1A0527	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	33	4
12BJ1A0527	R41052	UML & DESIGN PATTERNS	19	31	4
12BJ1A0527	R41053	DATA WARE HOUSING AND DATA MINING	19	26	4
12BJ1A0527	R41054	MOBILE COMPUTING	21	5	0
12BJ1A0527	R41057	OPEN SOURCE SOFTWARE	25	16	0
12BJ1A0527	R4105B	SOFTWARE PROJECT MANAGEMENT	22	26	4
12BJ1A0527	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0527	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12BJ1A0528	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	28	4
12BJ1A0528	R41052	UML & DESIGN PATTERNS	18	29	4
12BJ1A0528	R41053	DATA WARE HOUSING AND DATA MINING	16	33	4
12BJ1A0528	R41054	MOBILE COMPUTING	15	8	0
12BJ1A0528	R41057	OPEN SOURCE SOFTWARE	20	26	4
12BJ1A0528	R4105B	SOFTWARE PROJECT MANAGEMENT	21	32	4
12BJ1A0528	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A0528	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0529	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	26	4
12BJ1A0529	R41052	UML & DESIGN PATTERNS	14	29	4
12BJ1A0529	R41053	DATA WARE HOUSING AND DATA MINING	15	26	4
12BJ1A0529	R41054	MOBILE COMPUTING	17	29	4
12BJ1A0529	R41057	OPEN SOURCE SOFTWARE	23	29	4
12BJ1A0529	R4105B	SOFTWARE PROJECT MANAGEMENT	22	44	4
12BJ1A0529	R4105E	UML & DESIGN PATTERNS LAB	21	46	2
12BJ1A0529	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	45	2
12BJ1A0530	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	5	0
12BJ1A0530	R41052	UML & DESIGN PATTERNS	15	29	4
12BJ1A0530	R41053	DATA WARE HOUSING AND DATA MINING	15	26	4
12BJ1A0530	R41054	MOBILE COMPUTING	15	26	4
12BJ1A0530	R41057	OPEN SOURCE SOFTWARE	23	4	0
12BJ1A0530	R4105B	SOFTWARE PROJECT MANAGEMENT	23	6	0
12BJ1A0530	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0530	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0531	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	32	4
12BJ1A0531	R41052	UML & DESIGN PATTERNS	14	17	0
12BJ1A0531	R41053	DATA WARE HOUSING AND DATA MINING	14	26	4
12BJ1A0531	R41054	MOBILE COMPUTING	17	12	0
12BJ1A0531	R41057	OPEN SOURCE SOFTWARE	22	15	0
12BJ1A0531	R4105B	SOFTWARE PROJECT MANAGEMENT	22	26	4



Htno	Subcode	Subname	Internal	External	credits
12BJ1A0531	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0531	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0532	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	30	4
12BJ1A0532	R41052	UML & DESIGN PATTERNS	13	35	4
12BJ1A0532	R41053	DATA WARE HOUSING AND DATA MINING	15	41	4
12BJ1A0532	R41054	MOBILE COMPUTING	18	13	0
12BJ1A0532	R41057	OPEN SOURCE SOFTWARE	18	9	0
12BJ1A0532	R4105B	SOFTWARE PROJECT MANAGEMENT	24	36	4
12BJ1A0532	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A0532	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0533	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	40	4
12BJ1A0533	R41052	UML & DESIGN PATTERNS	21	47	4
12BJ1A0533	R41053	DATA WARE HOUSING AND DATA MINING	21	45	4
12BJ1A0533	R41054	MOBILE COMPUTING	24	35	4
12BJ1A0533	R41057	OPEN SOURCE SOFTWARE	24	30	4
12BJ1A0533	R4105B	SOFTWARE PROJECT MANAGEMENT	25	54	4
12BJ1A0533	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0533	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	49	2
12BJ1A0534	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	7	10	0
12BJ1A0534	R41052	UML & DESIGN PATTERNS	15	29	4
12BJ1A0534	R41053	DATA WARE HOUSING AND DATA MINING	16	36	4
12BJ1A0534	R41054	MOBILE COMPUTING	18	26	4
12BJ1A0534	R41057	OPEN SOURCE SOFTWARE	23	34	4
12BJ1A0534	R4105B	SOFTWARE PROJECT MANAGEMENT	21	34	4
12BJ1A0534	R4105E	UML & DESIGN PATTERNS LAB	20	45	2
12BJ1A0534	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0535	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	12	29	4
12BJ1A0535	R41052	UML & DESIGN PATTERNS	14	8	0
12BJ1A0535	R41053	DATA WARE HOUSING AND DATA MINING	16	16	0
12BJ1A0535	R41054	MOBILE COMPUTING	18	3	0
12BJ1A0535	R41057	OPEN SOURCE SOFTWARE	21	8	0
12BJ1A0535	R4105B	SOFTWARE PROJECT MANAGEMENT	22	9	0
12BJ1A0535	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0535	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0536	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	28	4
12BJ1A0536	R41052	UML & DESIGN PATTERNS	17	38	4
12BJ1A0536	R41053	DATA WARE HOUSING AND DATA MINING	19	39	4
12BJ1A0536	R41054	MOBILE COMPUTING	24	27	4
12BJ1A0536	R41057	OPEN SOURCE SOFTWARE	24	11	0
12BJ1A0536	R4105B	SOFTWARE PROJECT MANAGEMENT	22	41	4
12BJ1A0536	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A0536	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	46	2
12BJ1A0537	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	30	4
12BJ1A0537	R41052	UML & DESIGN PATTERNS	15	37	4
12BJ1A0537	R41053	DATA WARE HOUSING AND DATA MINING	16	38	4
12BJ1A0537	R41054	MOBILE COMPUTING	21	33	4
12BJ1A0537	R41057	OPEN SOURCE SOFTWARE	16	11	0
12BJ1A0537	R4105B	SOFTWARE PROJECT MANAGEMENT	15	47	4
12BJ1A0537	R4105E	UML & DESIGN PATTERNS LAB	24	48	2
12BJ1A0537	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	47	2
12BJ1A0538	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	14	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0538	R41052	UML & DESIGN PATTERNS	15	41	4
12BJ1A0538	R41053	DATA WARE HOUSING AND DATA MINING	21	14	0
12BJ1A0538	R41054	MOBILE COMPUTING	22	10	0
12BJ1A0538	R41057	OPEN SOURCE SOFTWARE	21	26	4
12BJ1A0538	R4105B	SOFTWARE PROJECT MANAGEMENT	21	26	4
12BJ1A0538	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0538	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	46	2
12BJ1A0539	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	25	44	4
12BJ1A0539	R41052	UML & DESIGN PATTERNS	25	43	4
12BJ1A0539	R41053	DATA WARE HOUSING AND DATA MINING	25	34	4
12BJ1A0539	R41054	MOBILE COMPUTING	25	26	4
12BJ1A0539	R41057	OPEN SOURCE SOFTWARE	24	42	4
12BJ1A0539	R4105B	SOFTWARE PROJECT MANAGEMENT	25	46	4
12BJ1A0539	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0539	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	50	2
12BJ1A0540	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	12	0
12BJ1A0540	R41052	UML & DESIGN PATTERNS	15	29	4
12BJ1A0540	R41053	DATA WARE HOUSING AND DATA MINING	14	36	4
12BJ1A0540	R41054	MOBILE COMPUTING	15	6	0
12BJ1A0540	R41057	OPEN SOURCE SOFTWARE	19	10	0
12BJ1A0540	R4105B	SOFTWARE PROJECT MANAGEMENT	22	27	4
12BJ1A0540	R4105E	UML & DESIGN PATTERNS LAB	20	42	2
12BJ1A0540	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0541	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	26	4
12BJ1A0541	R41052	UML & DESIGN PATTERNS	14	28	4
12BJ1A0541	R41053	DATA WARE HOUSING AND DATA MINING	18	31	4
12BJ1A0541	R41054	MOBILE COMPUTING	24	26	4
12BJ1A0541	R41057	OPEN SOURCE SOFTWARE	16	26	4
12BJ1A0541	R4105B	SOFTWARE PROJECT MANAGEMENT	17	38	4
12BJ1A0541	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A0541	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	45	2
12BJ1A0542	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	26	4
12BJ1A0542	R41052	UML & DESIGN PATTERNS	17	43	4
12BJ1A0542	R41053	DATA WARE HOUSING AND DATA MINING	20	31	4
12BJ1A0542	R41054	MOBILE COMPUTING	18	26	4
12BJ1A0542	R41057	OPEN SOURCE SOFTWARE	22	8	0
12BJ1A0542	R4105B	SOFTWARE PROJECT MANAGEMENT	23	17	0
12BJ1A0542	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0542	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	46	2
12BJ1A0543	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	27	4
12BJ1A0543	R41052	UML & DESIGN PATTERNS	14	26	4
12BJ1A0543	R41053	DATA WARE HOUSING AND DATA MINING	16	21	0
12BJ1A0543	R41054	MOBILE COMPUTING	16	9	0
12BJ1A0543	R41057	OPEN SOURCE SOFTWARE	18	30	4
12BJ1A0543	R4105B	SOFTWARE PROJECT MANAGEMENT	22	7	0
12BJ1A0543	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0543	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0544	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	17	0
12BJ1A0544	R41052	UML & DESIGN PATTERNS	22	34	4
12BJ1A0544	R41053	DATA WARE HOUSING AND DATA MINING	19	39	4
12BJ1A0544	R41054	MOBILE COMPUTING	25	30	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0544	R41057	OPEN SOURCE SOFTWARE	21	26	4
12BJ1A0544	R4105B	SOFTWARE PROJECT MANAGEMENT	24	34	4
12BJ1A0544	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0544	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	49	2
12BJ1A0545	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	37	4
12BJ1A0545	R41052	UML & DESIGN PATTERNS	18	51	4
12BJ1A0545	R41053	DATA WARE HOUSING AND DATA MINING	19	34	4
12BJ1A0545	R41054	MOBILE COMPUTING	22	29	4
12BJ1A0545	R41057	OPEN SOURCE SOFTWARE	22	30	4
12BJ1A0545	R4105B	SOFTWARE PROJECT MANAGEMENT	21	35	4
12BJ1A0545	R4105E	UML & DESIGN PATTERNS LAB	22	45	2
12BJ1A0545	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0546	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	26	4
12BJ1A0546	R41052	UML & DESIGN PATTERNS	14	26	4
12BJ1A0546	R41053	DATA WARE HOUSING AND DATA MINING	22	28	4
12BJ1A0546	R41054	MOBILE COMPUTING	18	26	4
12BJ1A0546	R41057	OPEN SOURCE SOFTWARE	21	5	0
12BJ1A0546	R4105B	SOFTWARE PROJECT MANAGEMENT	22	15	0
12BJ1A0546	R4105E	UML & DESIGN PATTERNS LAB	20	42	2
12BJ1A0546	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0547	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	26	4
12BJ1A0547	R41052	UML & DESIGN PATTERNS	16	17	0
12BJ1A0547	R41053	DATA WARE HOUSING AND DATA MINING	18	26	4
12BJ1A0547	R41054	MOBILE COMPUTING	19	8	0
12BJ1A0547	R41057	OPEN SOURCE SOFTWARE	21	35	4
12BJ1A0547	R4105B	SOFTWARE PROJECT MANAGEMENT	23	26	4
12BJ1A0547	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A0547	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0549	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	17	0
12BJ1A0549	R41052	UML & DESIGN PATTERNS	18	28	4
12BJ1A0549	R41053	DATA WARE HOUSING AND DATA MINING	20	31	4
12BJ1A0549	R41054	MOBILE COMPUTING	23	31	4
12BJ1A0549	R41057	OPEN SOURCE SOFTWARE	15	7	0
12BJ1A0549	R4105B	SOFTWARE PROJECT MANAGEMENT	22	30	4
12BJ1A0549	R4105E	UML & DESIGN PATTERNS LAB	22	42	2
12BJ1A0549	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	48	2
12BJ1A0550	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	28	4
12BJ1A0550	R41052	UML & DESIGN PATTERNS	17	41	4
12BJ1A0550	R41053	DATA WARE HOUSING AND DATA MINING	21	37	4
12BJ1A0550	R41054	MOBILE COMPUTING	25	29	4
12BJ1A0550	R41057	OPEN SOURCE SOFTWARE	22	39	4
12BJ1A0550	R4105B	SOFTWARE PROJECT MANAGEMENT	24	35	4
12BJ1A0550	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0550	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	48	2
12BJ1A0551	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	26	4
12BJ1A0551	R41052	UML & DESIGN PATTERNS	21	44	4
12BJ1A0551	R41053	DATA WARE HOUSING AND DATA MINING	20	51	4
12BJ1A0551	R41054	MOBILE COMPUTING	23	47	4
12BJ1A0551	R41057	OPEN SOURCE SOFTWARE	23	30	4
12BJ1A0551	R4105B	SOFTWARE PROJECT MANAGEMENT	25	51	4
12BJ1A0551	R4105E	UML & DESIGN PATTERNS LAB	25	50	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0551	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	50	2
12BJ1A0552	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	40	4
12BJ1A0552	R41052	UML & DESIGN PATTERNS	17	37	4
12BJ1A0552	R41053	DATA WARE HOUSING AND DATA MINING	19	30	4
12BJ1A0552	R41054	MOBILE COMPUTING	21	5	0
12BJ1A0552	R41057	OPEN SOURCE SOFTWARE	21	43	4
12BJ1A0552	R4105B	SOFTWARE PROJECT MANAGEMENT	22	32	4
12BJ1A0552	R4105E	UML & DESIGN PATTERNS LAB	20	45	2
12BJ1A0552	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0553	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	27	4
12BJ1A0553	R41052	UML & DESIGN PATTERNS	18	29	4
12BJ1A0553	R41053	DATA WARE HOUSING AND DATA MINING	18	35	4
12BJ1A0553	R41054	MOBILE COMPUTING	19	27	4
12BJ1A0553	R41057	OPEN SOURCE SOFTWARE	21	26	4
12BJ1A0553	R4105B	SOFTWARE PROJECT MANAGEMENT	24	30	4
12BJ1A0553	R4105E	UML & DESIGN PATTERNS LAB	22	45	2
12BJ1A0553	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0554	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	32	4
12BJ1A0554	R41052	UML & DESIGN PATTERNS	17	40	4
12BJ1A0554	R41053	DATA WARE HOUSING AND DATA MINING	20	26	4
12BJ1A0554	R41054	MOBILE COMPUTING	20	31	4
12BJ1A0554	R41057	OPEN SOURCE SOFTWARE	21	32	4
12BJ1A0554	R4105B	SOFTWARE PROJECT MANAGEMENT	22	34	4
12BJ1A0554	R4105E	UML & DESIGN PATTERNS LAB	22	45	2
12BJ1A0554	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0555	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	26	4
12BJ1A0555	R41052	UML & DESIGN PATTERNS	16	29	4
12BJ1A0555	R41053	DATA WARE HOUSING AND DATA MINING	16	11	0
12BJ1A0555	R41054	MOBILE COMPUTING	19	26	4
12BJ1A0555	R41057	OPEN SOURCE SOFTWARE	19	15	0
12BJ1A0555	R4105B	SOFTWARE PROJECT MANAGEMENT	23	5	0
12BJ1A0555	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0555	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	46	2
12BJ1A0556	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	0	26	0
12BJ1A0556	R41052	UML & DESIGN PATTERNS	15	11	0
12BJ1A0556	R41053	DATA WARE HOUSING AND DATA MINING	15	10	0
12BJ1A0556	R41054	MOBILE COMPUTING	15	0	0
12BJ1A0556	R41057	OPEN SOURCE SOFTWARE	15	40	4
12BJ1A0556	R4105B	SOFTWARE PROJECT MANAGEMENT	21	0	0
12BJ1A0556	R4105E	UML & DESIGN PATTERNS LAB	14	45	2
12BJ1A0556	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0557	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	24	34	4
12BJ1A0557	R41052	UML & DESIGN PATTERNS	20	37	4
12BJ1A0557	R41053	DATA WARE HOUSING AND DATA MINING	22	44	4
12BJ1A0557	R41054	MOBILE COMPUTING	25	35	4
12BJ1A0557	R41057	OPEN SOURCE SOFTWARE	24	30	4
12BJ1A0557	R4105B	SOFTWARE PROJECT MANAGEMENT	24	35	4
12BJ1A0557	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0557	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0558	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	14	0
12BJ1A0558	R41052	UML & DESIGN PATTERNS	16	33	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0558	R41053	DATA WARE HOUSING AND DATA MINING	21	15	0
12BJ1A0558	R41054	MOBILE COMPUTING	24	29	4
12BJ1A0558	R41057	OPEN SOURCE SOFTWARE	20	8	0
12BJ1A0558	R4105B	SOFTWARE PROJECT MANAGEMENT	22	34	4
12BJ1A0558	R4105E	UML & DESIGN PATTERNS LAB	22	45	2
12BJ1A0558	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A0560	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	14	0
12BJ1A0560	R41052	UML & DESIGN PATTERNS	19	37	4
12BJ1A0560	R41053	DATA WARE HOUSING AND DATA MINING	19	29	4
12BJ1A0560	R41054	MOBILE COMPUTING	20	40	4
12BJ1A0560	R41057	OPEN SOURCE SOFTWARE	22	28	4
12BJ1A0560	R4105B	SOFTWARE PROJECT MANAGEMENT	23	26	4
12BJ1A0560	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A0560	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0561	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	38	4
12BJ1A0561	R41052	UML & DESIGN PATTERNS	17	34	4
12BJ1A0561	R41053	DATA WARE HOUSING AND DATA MINING	19	37	4
12BJ1A0561	R41054	MOBILE COMPUTING	22	12	0
12BJ1A0561	R41057	OPEN SOURCE SOFTWARE	18	10	0
12BJ1A0561	R4105B	SOFTWARE PROJECT MANAGEMENT	23	33	4
12BJ1A0561	R4105E	UML & DESIGN PATTERNS LAB	24	48	2
12BJ1A0561	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	48	2
12BJ1A0562	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	30	4
12BJ1A0562	R41052	UML & DESIGN PATTERNS	20	37	4
12BJ1A0562	R41053	DATA WARE HOUSING AND DATA MINING	23	53	4
12BJ1A0562	R41054	MOBILE COMPUTING	24	38	4
12BJ1A0562	R41057	OPEN SOURCE SOFTWARE	25	26	4
12BJ1A0562	R4105B	SOFTWARE PROJECT MANAGEMENT	24	42	4
12BJ1A0562	R4105E	UML & DESIGN PATTERNS LAB	25	49	2
12BJ1A0562	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	47	2
12BJ1A0563	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	28	4
12BJ1A0563	R41052	UML & DESIGN PATTERNS	15	41	4
12BJ1A0563	R41053	DATA WARE HOUSING AND DATA MINING	17	26	4
12BJ1A0563	R41054	MOBILE COMPUTING	18	37	4
12BJ1A0563	R41057	OPEN SOURCE SOFTWARE	25	29	4
12BJ1A0563	R4105B	SOFTWARE PROJECT MANAGEMENT	22	34	4
12BJ1A0563	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0563	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0564	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	29	4
12BJ1A0564	R41052	UML & DESIGN PATTERNS	21	55	4
12BJ1A0564	R41053	DATA WARE HOUSING AND DATA MINING	21	39	4
12BJ1A0564	R41054	MOBILE COMPUTING	21	47	4
12BJ1A0564	R41057	OPEN SOURCE SOFTWARE	25	52	4
12BJ1A0564	R4105B	SOFTWARE PROJECT MANAGEMENT	24	47	4
12BJ1A0564	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0564	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12BJ1A0565	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	34	4
12BJ1A0565	R41052	UML & DESIGN PATTERNS	14	26	4
12BJ1A0565	R41053	DATA WARE HOUSING AND DATA MINING	19	36	4
12BJ1A0565	R41054	MOBILE COMPUTING	18	5	0
12BJ1A0565	R41057	OPEN SOURCE SOFTWARE	22	13	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0565	R4105B	SOFTWARE PROJECT MANAGEMENT	21	15	0
12BJ1A0565	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0565	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	47	2
12BJ1A0566	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	35	4
12BJ1A0566	R41052	UML & DESIGN PATTERNS	16	36	4
12BJ1A0566	R41053	DATA WARE HOUSING AND DATA MINING	19	48	4
12BJ1A0566	R41054	MOBILE COMPUTING	24	44	4
12BJ1A0566	R41057	OPEN SOURCE SOFTWARE	20	30	4
12BJ1A0566	R4105B	SOFTWARE PROJECT MANAGEMENT	18	46	4
12BJ1A0566	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0566	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0567	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	24	49	4
12BJ1A0567	R41052	UML & DESIGN PATTERNS	23	60	4
12BJ1A0567	R41053	DATA WARE HOUSING AND DATA MINING	25	50	4
12BJ1A0567	R41054	MOBILE COMPUTING	25	52	4
12BJ1A0567	R41057	OPEN SOURCE SOFTWARE	25	50	4
12BJ1A0567	R4105B	SOFTWARE PROJECT MANAGEMENT	24	51	4
12BJ1A0567	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0567	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	49	2
12BJ1A0568	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	26	4
12BJ1A0568	R41052	UML & DESIGN PATTERNS	15	43	4
12BJ1A0568	R41053	DATA WARE HOUSING AND DATA MINING	21	41	4
12BJ1A0568	R41054	MOBILE COMPUTING	24	34	4
12BJ1A0568	R41057	OPEN SOURCE SOFTWARE	24	26	4
12BJ1A0568	R4105B	SOFTWARE PROJECT MANAGEMENT	23	56	4
12BJ1A0568	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0568	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0569	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	50	4
12BJ1A0569	R41052	UML & DESIGN PATTERNS	21	42	4
12BJ1A0569	R41053	DATA WARE HOUSING AND DATA MINING	22	38	4
12BJ1A0569	R41054	MOBILE COMPUTING	25	39	4
12BJ1A0569	R41057	OPEN SOURCE SOFTWARE	23	60	4
12BJ1A0569	R4105B	SOFTWARE PROJECT MANAGEMENT	21	45	4
12BJ1A0569	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0569	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	50	2
12BJ1A0570	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	31	4
12BJ1A0570	R41052	UML & DESIGN PATTERNS	16	37	4
12BJ1A0570	R41053	DATA WARE HOUSING AND DATA MINING	20	37	4
12BJ1A0570	R41054	MOBILE COMPUTING	21	28	4
12BJ1A0570	R41057	OPEN SOURCE SOFTWARE	22	26	4
12BJ1A0570	R4105B	SOFTWARE PROJECT MANAGEMENT	23	36	4
12BJ1A0570	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0570	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12BJ1A0571	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	24	31	4
12BJ1A0571	R41052	UML & DESIGN PATTERNS	19	39	4
12BJ1A0571	R41053	DATA WARE HOUSING AND DATA MINING	22	27	4
12BJ1A0571	R41054	MOBILE COMPUTING	23	38	4
12BJ1A0571	R41057	OPEN SOURCE SOFTWARE	20	32	4
12BJ1A0571	R4105B	SOFTWARE PROJECT MANAGEMENT	22	34	4
12BJ1A0571	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0571	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	50	2

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0572	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	0	-1	0
12BJ1A0572	R41052	UML & DESIGN PATTERNS	0	-1	0
12BJ1A0572	R41053	DATA WARE HOUSING AND DATA MINING	0	-1	0
12BJ1A0572	R41054	MOBILE COMPUTING	0	-1	0
12BJ1A0572	R41057	OPEN SOURCE SOFTWARE	0	-1	0
12BJ1A0572	R4105B	SOFTWARE PROJECT MANAGEMENT	10	-1	0
12BJ1A0572	R4105E	UML & DESIGN PATTERNS LAB	0	-1	0
12BJ1A0572	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	0	-1	0
12BJ1A0573	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	22	33	4
12BJ1A0573	R41052	UML & DESIGN PATTERNS	20	35	4
12BJ1A0573	R41053	DATA WARE HOUSING AND DATA MINING	21	35	4
12BJ1A0573	R41054	MOBILE COMPUTING	21	33	4
12BJ1A0573	R41057	OPEN SOURCE SOFTWARE	21	31	4
12BJ1A0573	R4105B	SOFTWARE PROJECT MANAGEMENT	20	33	4
12BJ1A0573	R4105E	UML & DESIGN PATTERNS LAB	24	47	2
12BJ1A0573	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A0574	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	34	4
12BJ1A0574	R41052	UML & DESIGN PATTERNS	19	41	4
12BJ1A0574	R41053	DATA WARE HOUSING AND DATA MINING	21	45	4
12BJ1A0574	R41054	MOBILE COMPUTING	21	32	4
12BJ1A0574	R41057	OPEN SOURCE SOFTWARE	19	27	4
12BJ1A0574	R4105B	SOFTWARE PROJECT MANAGEMENT	23	50	4
12BJ1A0574	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0574	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0575	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	38	4
12BJ1A0575	R41052	UML & DESIGN PATTERNS	15	47	4
12BJ1A0575	R41053	DATA WARE HOUSING AND DATA MINING	21	48	4
12BJ1A0575	R41054	MOBILE COMPUTING	25	49	4
12BJ1A0575	R41057	OPEN SOURCE SOFTWARE	23	32	4
12BJ1A0575	R4105B	SOFTWARE PROJECT MANAGEMENT	22	39	4
12BJ1A0575	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0575	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0576	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	5	0
12BJ1A0576	R41052	UML & DESIGN PATTERNS	18	35	4
12BJ1A0576	R41053	DATA WARE HOUSING AND DATA MINING	18	30	4
12BJ1A0576	R41054	MOBILE COMPUTING	25	35	4
12BJ1A0576	R41057	OPEN SOURCE SOFTWARE	19	37	4
12BJ1A0576	R4105B	SOFTWARE PROJECT MANAGEMENT	21	34	4
12BJ1A0576	R4105E	UML & DESIGN PATTERNS LAB	25	49	2
12BJ1A0576	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	46	2
12BJ1A0577	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	24	26	4
12BJ1A0577	R41052	UML & DESIGN PATTERNS	18	36	4
12BJ1A0577	R41053	DATA WARE HOUSING AND DATA MINING	21	29	4
12BJ1A0577	R41054	MOBILE COMPUTING	15	26	4
12BJ1A0577	R41057	OPEN SOURCE SOFTWARE	18	14	0
12BJ1A0577	R4105B	SOFTWARE PROJECT MANAGEMENT	22	31	4
12BJ1A0577	R4105E	UML & DESIGN PATTERNS LAB	23	48	2
12BJ1A0577	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	47	2
12BJ1A0578	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	34	4
12BJ1A0578	R41052	UML & DESIGN PATTERNS	17	37	4
12BJ1A0578	R41053	DATA WARE HOUSING AND DATA MINING	19	41	4

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0578	R41054	MOBILE COMPUTING	21	41	4
12BJ1A0578	R41057	OPEN SOURCE SOFTWARE	23	39	4
12BJ1A0578	R4105B	SOFTWARE PROJECT MANAGEMENT	23	41	4
12BJ1A0578	R4105E	UML & DESIGN PATTERNS LAB	20	42	2
12BJ1A0578	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	47	2
12BJ1A0579	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	13	0
12BJ1A0579	R41052	UML & DESIGN PATTERNS	15	46	4
12BJ1A0579	R41053	DATA WARE HOUSING AND DATA MINING	17	32	4
12BJ1A0579	R41054	MOBILE COMPUTING	20	33	4
12BJ1A0579	R41057	OPEN SOURCE SOFTWARE	20	29	4
12BJ1A0579	R4105B	SOFTWARE PROJECT MANAGEMENT	24	26	4
12BJ1A0579	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0579	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0580	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	26	4
12BJ1A0580	R41052	UML & DESIGN PATTERNS	20	54	4
12BJ1A0580	R41053	DATA WARE HOUSING AND DATA MINING	19	38	4
12BJ1A0580	R41054	MOBILE COMPUTING	20	32	4
12BJ1A0580	R41057	OPEN SOURCE SOFTWARE	15	44	4
12BJ1A0580	R4105B	SOFTWARE PROJECT MANAGEMENT	22	47	4
12BJ1A0580	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0580	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	47	2
12BJ1A0581	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	48	4
12BJ1A0581	R41052	UML & DESIGN PATTERNS	20	35	4
12BJ1A0581	R41053	DATA WARE HOUSING AND DATA MINING	23	48	4
12BJ1A0581	R41054	MOBILE COMPUTING	22	26	4
12BJ1A0581	R41057	OPEN SOURCE SOFTWARE	21	40	4
12BJ1A0581	R4105B	SOFTWARE PROJECT MANAGEMENT	24	32	4
12BJ1A0581	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0581	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	48	2
12BJ1A0582	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	28	4
12BJ1A0582	R41052	UML & DESIGN PATTERNS	20	32	4
12BJ1A0582	R41053	DATA WARE HOUSING AND DATA MINING	19	40	4
12BJ1A0582	R41054	MOBILE COMPUTING	20	29	4
12BJ1A0582	R41057	OPEN SOURCE SOFTWARE	24	29	4
12BJ1A0582	R4105B	SOFTWARE PROJECT MANAGEMENT	24	30	4
12BJ1A0582	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0582	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	48	2
12BJ1A0583	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	27	4
12BJ1A0583	R41052	UML & DESIGN PATTERNS	15	36	4
12BJ1A0583	R41053	DATA WARE HOUSING AND DATA MINING	17	32	4
12BJ1A0583	R41054	MOBILE COMPUTING	18	28	4
12BJ1A0583	R41057	OPEN SOURCE SOFTWARE	16	31	4
12BJ1A0583	R4105B	SOFTWARE PROJECT MANAGEMENT	23	28	4
12BJ1A0583	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0583	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12BJ1A0584	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	11	0
12BJ1A0584	R41052	UML & DESIGN PATTERNS	14	36	4
12BJ1A0584	R41053	DATA WARE HOUSING AND DATA MINING	15	41	4
12BJ1A0584	R41054	MOBILE COMPUTING	22	13	0
12BJ1A0584	R41057	OPEN SOURCE SOFTWARE	22	32	4
12BJ1A0584	R4105B	SOFTWARE PROJECT MANAGEMENT	20	44	4



Htno	Subcode	Subname	Internal	External	credits
12BJ1A0584	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0584	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12BJ1A0585	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	43	4
12BJ1A0585	R41052	UML & DESIGN PATTERNS	15	33	4
12BJ1A0585	R41053	DATA WARE HOUSING AND DATA MINING	21	31	4
12BJ1A0585	R41054	MOBILE COMPUTING	24	26	4
12BJ1A0585	R41057	OPEN SOURCE SOFTWARE	24	31	4
12BJ1A0585	R4105B	SOFTWARE PROJECT MANAGEMENT	17	14	0
12BJ1A0585	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0585	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0586	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	21	28	4
12BJ1A0586	R41052	UML & DESIGN PATTERNS	22	33	4
12BJ1A0586	R41053	DATA WARE HOUSING AND DATA MINING	21	44	4
12BJ1A0586	R41054	MOBILE COMPUTING	23	45	4
12BJ1A0586	R41057	OPEN SOURCE SOFTWARE	24	39	4
12BJ1A0586	R4105B	SOFTWARE PROJECT MANAGEMENT	24	33	4
12BJ1A0586	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A0586	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	47	2
12BJ1A0587	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	34	4
12BJ1A0587	R41052	UML & DESIGN PATTERNS	23	40	4
12BJ1A0587	R41053	DATA WARE HOUSING AND DATA MINING	23	38	4
12BJ1A0587	R41054	MOBILE COMPUTING	24	41	4
12BJ1A0587	R41057	OPEN SOURCE SOFTWARE	25	50	4
12BJ1A0587	R4105B	SOFTWARE PROJECT MANAGEMENT	25	35	4
12BJ1A0587	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0587	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12BJ1A0588	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	19	11	0
12BJ1A0588	R41052	UML & DESIGN PATTERNS	18	56	4
12BJ1A0588	R41053	DATA WARE HOUSING AND DATA MINING	20	48	4
12BJ1A0588	R41054	MOBILE COMPUTING	25	26	4
12BJ1A0588	R41057	OPEN SOURCE SOFTWARE	16	26	4
12BJ1A0588	R4105B	SOFTWARE PROJECT MANAGEMENT	25	26	4
12BJ1A0588	R4105E	UML & DESIGN PATTERNS LAB	24	48	2
12BJ1A0588	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0589	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	29	4
12BJ1A0589	R41052	UML & DESIGN PATTERNS	17	30	4
12BJ1A0589	R41053	DATA WARE HOUSING AND DATA MINING	16	30	4
12BJ1A0589	R41054	MOBILE COMPUTING	20	33	4
12BJ1A0589	R41057	OPEN SOURCE SOFTWARE	16	35	4
12BJ1A0589	R4105B	SOFTWARE PROJECT MANAGEMENT	16	37	4
12BJ1A0589	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0589	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A0590	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	-1	0
12BJ1A0590	R41052	UML & DESIGN PATTERNS	16	-1	0
12BJ1A0590	R41053	DATA WARE HOUSING AND DATA MINING	20	-1	0
12BJ1A0590	R41054	MOBILE COMPUTING	20	-1	0
12BJ1A0590	R41057	OPEN SOURCE SOFTWARE	23	-1	0
12BJ1A0590	R4105B	SOFTWARE PROJECT MANAGEMENT	18	-1	0
12BJ1A0590	R4105E	UML & DESIGN PATTERNS LAB	20	42	2
12BJ1A0590	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	48	2
12BJ1A0591	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	13	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0591	R41052	UML & DESIGN PATTERNS	14	11	0
12BJ1A0591	R41053	DATA WARE HOUSING AND DATA MINING	15	20	0
12BJ1A0591	R41054	MOBILE COMPUTING	18	14	0
12BJ1A0591	R41057	OPEN SOURCE SOFTWARE	14	11	0
12BJ1A0591	R4105B	SOFTWARE PROJECT MANAGEMENT	23	15	0
12BJ1A0591	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A0591	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A0592	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	23	26	4
12BJ1A0592	R41052	UML & DESIGN PATTERNS	20	41	4
12BJ1A0592	R41053	DATA WARE HOUSING AND DATA MINING	25	45	4
12BJ1A0592	R41054	MOBILE COMPUTING	25	27	4
12BJ1A0592	R41057	OPEN SOURCE SOFTWARE	25	36	4
12BJ1A0592	R4105B	SOFTWARE PROJECT MANAGEMENT	24	42	4
12BJ1A0592	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
12BJ1A0592	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12BJ1A0594	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	12	0
12BJ1A0594	R41052	UML & DESIGN PATTERNS	14	11	0
12BJ1A0594	R41053	DATA WARE HOUSING AND DATA MINING	16	26	4
12BJ1A0594	R41054	MOBILE COMPUTING	19	10	0
12BJ1A0594	R41057	OPEN SOURCE SOFTWARE	18	9	0
12BJ1A0594	R4105B	SOFTWARE PROJECT MANAGEMENT	22	7	0
12BJ1A0594	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A0594	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	45	2
12BJ1A0596	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	28	4
12BJ1A0596	R41052	UML & DESIGN PATTERNS	17	32	4
12BJ1A0596	R41053	DATA WARE HOUSING AND DATA MINING	18	29	4
12BJ1A0596	R41054	MOBILE COMPUTING	25	29	4
12BJ1A0596	R41057	OPEN SOURCE SOFTWARE	23	26	4
12BJ1A0596	R4105B	SOFTWARE PROJECT MANAGEMENT	22	32	4
12BJ1A0596	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0596	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	23	47	2
12BJ1A0597	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	27	4
12BJ1A0597	R41052	UML & DESIGN PATTERNS	19	38	4
12BJ1A0597	R41053	DATA WARE HOUSING AND DATA MINING	18	32	4
12BJ1A0597	R41054	MOBILE COMPUTING	25	46	4
12BJ1A0597	R41057	OPEN SOURCE SOFTWARE	20	26	4
12BJ1A0597	R4105B	SOFTWARE PROJECT MANAGEMENT	24	42	4
12BJ1A0597	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A0597	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	47	2
12BJ1A0598	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	11	16	0
12BJ1A0598	R41052	UML & DESIGN PATTERNS	14	30	4
12BJ1A0598	R41053	DATA WARE HOUSING AND DATA MINING	13	13	0
12BJ1A0598	R41054	MOBILE COMPUTING	21	14	0
12BJ1A0598	R41057	OPEN SOURCE SOFTWARE	20	11	0
12BJ1A0598	R4105B	SOFTWARE PROJECT MANAGEMENT	23	10	0
12BJ1A0598	R4105E	UML & DESIGN PATTERNS LAB	20	46	2
12BJ1A0598	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	45	2
12BJ1A0599	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	0	27	0
12BJ1A0599	R41052	UML & DESIGN PATTERNS	0	20	0
12BJ1A0599	R41053	DATA WARE HOUSING AND DATA MINING	0	22	0
12BJ1A0599	R41054	MOBILE COMPUTING	0	13	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A0599	R41057	OPEN SOURCE SOFTWARE	0	26	0
12BJ1A0599	R4105B	SOFTWARE PROJECT MANAGEMENT	10	2	0
12BJ1A0599	R4105E	UML & DESIGN PATTERNS LAB	20	45	2
12BJ1A0599	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	47	2
12BJ1A05A0	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	20	27	4
12BJ1A05A0	R41052	UML & DESIGN PATTERNS	18	38	4
12BJ1A05A0	R41053	DATA WARE HOUSING AND DATA MINING	19	35	4
12BJ1A05A0	R41054	MOBILE COMPUTING	25	33	4
12BJ1A05A0	R41057	OPEN SOURCE SOFTWARE	25	26	4
12BJ1A05A0	R4105B	SOFTWARE PROJECT MANAGEMENT	24	37	4
12BJ1A05A0	R4105E	UML & DESIGN PATTERNS LAB	24	49	2
12BJ1A05A0	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	48	2
12BJ1A05A1	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	36	4
12BJ1A05A1	R41052	UML & DESIGN PATTERNS	15	38	4
12BJ1A05A1	R41053	DATA WARE HOUSING AND DATA MINING	15	40	4
12BJ1A05A1	R41054	MOBILE COMPUTING	23	45	4
12BJ1A05A1	R41057	OPEN SOURCE SOFTWARE	23	31	4
12BJ1A05A1	R4105B	SOFTWARE PROJECT MANAGEMENT	13	34	4
12BJ1A05A1	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A05A1	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	48	2
12BJ1A05A3	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	39	4
12BJ1A05A3	R41052	UML & DESIGN PATTERNS	16	63	4
12BJ1A05A3	R41053	DATA WARE HOUSING AND DATA MINING	18	45	4
12BJ1A05A3	R41054	MOBILE COMPUTING	22	26	4
12BJ1A05A3	R41057	OPEN SOURCE SOFTWARE	25	35	4
12BJ1A05A3	R4105B	SOFTWARE PROJECT MANAGEMENT	23	34	4
12BJ1A05A3	R4105E	UML & DESIGN PATTERNS LAB	21	45	2
12BJ1A05A3	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	47	2
12BJ1A05A4	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	20	0
12BJ1A05A4	R41052	UML & DESIGN PATTERNS	14	20	0
12BJ1A05A4	R41053	DATA WARE HOUSING AND DATA MINING	20	28	4
12BJ1A05A4	R41054	MOBILE COMPUTING	22	10	0
12BJ1A05A4	R41057	OPEN SOURCE SOFTWARE	11	16	0
12BJ1A05A4	R4105B	SOFTWARE PROJECT MANAGEMENT	22	7	0
12BJ1A05A4	R4105E	UML & DESIGN PATTERNS LAB	23	45	2
12BJ1A05A4	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	48	2
12BJ1A05A5	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	28	4
12BJ1A05A5	R41052	UML & DESIGN PATTERNS	16	36	4
12BJ1A05A5	R41053	DATA WARE HOUSING AND DATA MINING	21	15	0
12BJ1A05A5	R41054	MOBILE COMPUTING	21	11	0
12BJ1A05A5	R41057	OPEN SOURCE SOFTWARE	24	10	0
12BJ1A05A5	R4105B	SOFTWARE PROJECT MANAGEMENT	23	30	4
12BJ1A05A5	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A05A5	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
12BJ1A05A6	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	0	-1	0
12BJ1A05A6	R41052	UML & DESIGN PATTERNS	0	-1	0
12BJ1A05A6	R41053	DATA WARE HOUSING AND DATA MINING	0	-1	0
12BJ1A05A6	R41054	MOBILE COMPUTING	0	-1	0
12BJ1A05A6	R41057	OPEN SOURCE SOFTWARE	0	-1	0
12BJ1A05A6	R4105B	SOFTWARE PROJECT MANAGEMENT	0	-1	0
12BJ1A05A6	R4105E	UML & DESIGN PATTERNS LAB	14	-1	0

Htno	Subcode	Subname	Internal	External	credits
12BJ1A05A6	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	14	-1	0
12BJ1A05A7	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	29	4
12BJ1A05A7	R41052	UML & DESIGN PATTERNS	14	35	4
12BJ1A05A7	R41053	DATA WARE HOUSING AND DATA MINING	18	40	4
12BJ1A05A7	R41054	MOBILE COMPUTING	20	28	4
12BJ1A05A7	R41057	OPEN SOURCE SOFTWARE	21	46	4
12BJ1A05A7	R4105B	SOFTWARE PROJECT MANAGEMENT	24	36	4
12BJ1A05A7	R4105E	UML & DESIGN PATTERNS LAB	24	48	2
12BJ1A05A7	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	48	2
12BJ1A05A8	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	16	27	4
12BJ1A05A8	R41052	UML & DESIGN PATTERNS	14	14	0
12BJ1A05A8	R41053	DATA WARE HOUSING AND DATA MINING	17	26	4
12BJ1A05A8	R41054	MOBILE COMPUTING	22	26	4
12BJ1A05A8	R41057	OPEN SOURCE SOFTWARE	25	29	4
12BJ1A05A8	R4105B	SOFTWARE PROJECT MANAGEMENT	22	6	0
12BJ1A05A8	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A05A8	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	45	2
12BJ1A05A9	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	28	4
12BJ1A05A9	R41052	UML & DESIGN PATTERNS	13	35	4
12BJ1A05A9	R41053	DATA WARE HOUSING AND DATA MINING	9	32	4
12BJ1A05A9	R41054	MOBILE COMPUTING	14	14	0
12BJ1A05A9	R41057	OPEN SOURCE SOFTWARE	12	28	4
12BJ1A05A9	R4105B	SOFTWARE PROJECT MANAGEMENT	22	32	4
12BJ1A05A9	R4105E	UML & DESIGN PATTERNS LAB	22	46	2
12BJ1A05A9	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	18	47	2
12BJ1A05B0	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	-1	0
12BJ1A05B0	R41052	UML & DESIGN PATTERNS	12	28	4
12BJ1A05B0	R41053	DATA WARE HOUSING AND DATA MINING	17	34	4
12BJ1A05B0	R41054	MOBILE COMPUTING	17	33	4
12BJ1A05B0	R41057	OPEN SOURCE SOFTWARE	21	20	0
12BJ1A05B0	R4105B	SOFTWARE PROJECT MANAGEMENT	15	38	4
12BJ1A05B0	R4105E	UML & DESIGN PATTERNS LAB	14	42	2
12BJ1A05B0	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	22	45	2
12BJ1A05B1	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	17	29	4
12BJ1A05B1	R41052	UML & DESIGN PATTERNS	15	36	4
12BJ1A05B1	R41053	DATA WARE HOUSING AND DATA MINING	18	32	4
12BJ1A05B1	R41054	MOBILE COMPUTING	24	27	4
12BJ1A05B1	R41057	OPEN SOURCE SOFTWARE	24	46	4
12BJ1A05B1	R4105B	SOFTWARE PROJECT MANAGEMENT	24	43	4
12BJ1A05B1	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
12BJ1A05B1	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ1A05B2	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	15	26	4
12BJ1A05B2	R41052	UML & DESIGN PATTERNS	15	34	4
12BJ1A05B2	R41053	DATA WARE HOUSING AND DATA MINING	16	29	4
12BJ1A05B2	R41054	MOBILE COMPUTING	18	26	4
12BJ1A05B2	R41057	OPEN SOURCE SOFTWARE	20	14	0
12BJ1A05B2	R4105B	SOFTWARE PROJECT MANAGEMENT	24	16	0
12BJ1A05B2	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
12BJ1A05B2	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	25	46	2
12BJ5A0206	R41026	INSTRUMENTATION	24	38	4
12BJ5A0208	R41024	POWER SYSTEM OPERATION & CONTROL	23	10	0

Htno	Subcode	Subname	Internal	External	credits
12BJ5A0208	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	24	-1	0
12BJ5A0212	R41024	POWER SYSTEM OPERATION & CONTROL	21	35	4
12BJ5A0212	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	24	28	4
12BJ5A0216	R41021	COMPUTER ORGANIZATION	0	-1	0
12BJ5A0216	R41022	HIGH VOLTAGE ENGINEERING	0	-1	0
12BJ5A0216	R41023	SWITCH GEAR & PROTECTION	0	-1	0
12BJ5A0216	R41024	POWER SYSTEM OPERATION & CONTROL	0	-1	0
12BJ5A0216	R41026	INSTRUMENTATION	0	-1	0
12BJ5A0216	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	0	-1	0
12BJ5A0216	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	0	-1	0
12BJ5A0216	R4102D	ELECTRICAL SIMULATION LAB	0	-1	0
12BJ5A0217	R41024	POWER SYSTEM OPERATION & CONTROL	24	8	0
12BJ5A0220	R41024	POWER SYSTEM OPERATION & CONTROL	17	3	0
12BJ5A0303	R41031	REFRIGERATION & AIR CONDITIONING	17	10	0
12BJ5A0303	R41033	ALTERNATIVE SOURCES OF ENERGY	8	-1	0
12BJ5A0403	R41044	RADAR SYSTEMS	16	-1	0
12BJ5A0503	R4105B	SOFTWARE PROJECT MANAGEMENT	16	39	4
13BJ5A0201	R41021	COMPUTER ORGANIZATION	23	26	4
13BJ5A0201	R41022	HIGH VOLTAGE ENGINEERING	24	58	4
13BJ5A0201	R41023	SWITCH GEAR & PROTECTION	23	40	4
13BJ5A0201	R41024	POWER SYSTEM OPERATION & CONTROL	23	48	4
13BJ5A0201	R41026	INSTRUMENTATION	24	26	4
13BJ5A0201	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	24	52	4
13BJ5A0201	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	25	50	2
13BJ5A0201	R4102D	ELECTRICAL SIMULATION LAB	24	49	2
13BJ5A0202	R41021	COMPUTER ORGANIZATION	18	50	4
13BJ5A0202	R41022	HIGH VOLTAGE ENGINEERING	20	51	4
13BJ5A0202	R41023	SWITCH GEAR & PROTECTION	17	6	0
13BJ5A0202	R41024	POWER SYSTEM OPERATION & CONTROL	13	1	0
13BJ5A0202	R41026	INSTRUMENTATION	9	32	4
13BJ5A0202	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	13	29	4
13BJ5A0202	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	15	40	2
13BJ5A0202	R4102D	ELECTRICAL SIMULATION LAB	21	42	2
13BJ5A0204	R41021	COMPUTER ORGANIZATION	25	11	0
13BJ5A0204	R41022	HIGH VOLTAGE ENGINEERING	25	11	0
13BJ5A0204	R41023	SWITCH GEAR & PROTECTION	24	42	4
13BJ5A0204	R41024	POWER SYSTEM OPERATION & CONTROL	25	0	0
13BJ5A0204	R41026	INSTRUMENTATION	25	50	4
13BJ5A0204	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	25	40	4
13BJ5A0204	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	48	2
13BJ5A0204	R4102D	ELECTRICAL SIMULATION LAB	25	49	2
13BJ5A0205	R41021	COMPUTER ORGANIZATION	22	32	4
13BJ5A0205	R41022	HIGH VOLTAGE ENGINEERING	23	29	4
13BJ5A0205	R41023	SWITCH GEAR & PROTECTION	23	26	4
13BJ5A0205	R41024	POWER SYSTEM OPERATION & CONTROL	24	15	0
13BJ5A0205	R41026	INSTRUMENTATION	23	13	0
13BJ5A0205	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	25	58	4
13BJ5A0205	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	46	2
13BJ5A0205	R4102D	ELECTRICAL SIMULATION LAB	22	47	2
13BJ5A0206	R41021	COMPUTER ORGANIZATION	16	-1	0
13BJ5A0206	R41022	HIGH VOLTAGE ENGINEERING	18	-1	0

Htno	Subcode	Subname	Internal	External	credits
13BJ5A0206	R41023	SWITCH GEAR & PROTECTION	19	-1	0
13BJ5A0206	R41024	POWER SYSTEM OPERATION & CONTROL	20	-1	0
13BJ5A0206	R41026	INSTRUMENTATION	20	-1	0
13BJ5A0206	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	-1	0
13BJ5A0206	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	17	43	2
13BJ5A0206	R4102D	ELECTRICAL SIMULATION LAB	18	-1	0
13BJ5A0207	R41021	COMPUTER ORGANIZATION	18	40	4
13BJ5A0207	R41022	HIGH VOLTAGE ENGINEERING	20	46	4
13BJ5A0207	R41023	SWITCH GEAR & PROTECTION	18	12	0
13BJ5A0207	R41024	POWER SYSTEM OPERATION & CONTROL	21	34	4
13BJ5A0207	R41026	INSTRUMENTATION	17	35	4
13BJ5A0207	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	16	38	4
13BJ5A0207	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	18	41	2
13BJ5A0207	R4102D	ELECTRICAL SIMULATION LAB	22	44	2
13BJ5A0208	R41021	COMPUTER ORGANIZATION	16	28	4
13BJ5A0208	R41022	HIGH VOLTAGE ENGINEERING	22	17	0
13BJ5A0208	R41023	SWITCH GEAR & PROTECTION	21	13	0
13BJ5A0208	R41024	POWER SYSTEM OPERATION & CONTROL	22	0	0
13BJ5A0208	R41026	INSTRUMENTATION	21	17	0
13BJ5A0208	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	18	29	4
13BJ5A0208	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	20	43	2
13BJ5A0208	R4102D	ELECTRICAL SIMULATION LAB	16	43	2
13BJ5A0209	R41021	COMPUTER ORGANIZATION	17	28	4
13BJ5A0209	R41022	HIGH VOLTAGE ENGINEERING	16	31	4
13BJ5A0209	R41023	SWITCH GEAR & PROTECTION	20	26	4
13BJ5A0209	R41024	POWER SYSTEM OPERATION & CONTROL	16	34	4
13BJ5A0209	R41026	INSTRUMENTATION	20	32	4
13BJ5A0209	R4102A	ELECTRICAL DISTRIBUTION SYSTEMS	20	50	4
13BJ5A0209	R4102C	MICROPROCESSORS & MICROCONTROLLERS LAB	23	44	2
13BJ5A0209	R4102D	ELECTRICAL SIMULATION LAB	21	44	2
13BJ5A0301	R41031	REFRIGERATION & AIR CONDITIONING	13	16	0
13BJ5A0301	R41032	CAD/CAM	15	9	0
13BJ5A0301	R41033	ALTERNATIVE SOURCES OF ENERGY	0	17	0
13BJ5A0301	R41034	UNCONVENTIONAL MACHINING PROCESSES	14	1	0
13BJ5A0301	R41035	MEMS	21	16	0
13BJ5A0301	R41037	AUTOMOBILE ENGINEERING	14	14	0
13BJ5A0301	R4103B	SIMULATION LAB	23	44	2
13BJ5A0301	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2
13BJ5A0302	R41031	REFRIGERATION & AIR CONDITIONING	16	8	0
13BJ5A0302	R41032	CAD/CAM	19	26	4
13BJ5A0302	R41033	ALTERNATIVE SOURCES OF ENERGY	18	21	0
13BJ5A0302	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	38	4
13BJ5A0302	R41035	MEMS	20	18	0
13BJ5A0302	R41037	AUTOMOBILE ENGINEERING	22	44	4
13BJ5A0302	R4103B	SIMULATION LAB	23	46	2
13BJ5A0302	R4103C	ADVANCED COMMUNICATION SKILLS LAB	22	46	2
13BJ5A0303	R41031	REFRIGERATION & AIR CONDITIONING	17	15	0
13BJ5A0303	R41032	CAD/CAM	16	49	4
13BJ5A0303	R41033	ALTERNATIVE SOURCES OF ENERGY	17	31	4
13BJ5A0303	R41034	UNCONVENTIONAL MACHINING PROCESSES	22	32	4
13BJ5A0303	R41035	MEMS	25	36	4

Htno	Subcode	Subname	Internal	External	credits
13BJ5A0303	R41037	AUTOMOBILE ENGINEERING	20	15	0
13BJ5A0303	R4103B	SIMULATION LAB	24	45	2
13BJ5A0303	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	47	2
13BJ5A0304	R41031	REFRIGERATION & AIR CONDITIONING	15	10	0
13BJ5A0304	R41032	CAD/CAM	16	19	0
13BJ5A0304	R41033	ALTERNATIVE SOURCES OF ENERGY	18	40	4
13BJ5A0304	R41034	UNCONVENTIONAL MACHINING PROCESSES	24	28	4
13BJ5A0304	R41035	MEMS	22	26	4
13BJ5A0304	R41037	AUTOMOBILE ENGINEERING	20	26	4
13BJ5A0304	R4103B	SIMULATION LAB	24	44	2
13BJ5A0304	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	43	2
13BJ5A0305	R41031	REFRIGERATION & AIR CONDITIONING	13	12	0
13BJ5A0305	R41032	CAD/CAM	15	34	4
13BJ5A0305	R41033	ALTERNATIVE SOURCES OF ENERGY	12	28	4
13BJ5A0305	R41034	UNCONVENTIONAL MACHINING PROCESSES	13	30	4
13BJ5A0305	R41035	MEMS	19	0	0
13BJ5A0305	R41037	AUTOMOBILE ENGINEERING	15	13	0
13BJ5A0305	R4103B	SIMULATION LAB	24	45	2
13BJ5A0305	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	45	2
13BJ5A0306	R41031	REFRIGERATION & AIR CONDITIONING	14	10	0
13BJ5A0306	R41032	CAD/CAM	18	32	4
13BJ5A0306	R41033	ALTERNATIVE SOURCES OF ENERGY	13	20	0
13BJ5A0306	R41034	UNCONVENTIONAL MACHINING PROCESSES	15	34	4
13BJ5A0306	R41035	MEMS	24	7	0
13BJ5A0306	R41037	AUTOMOBILE ENGINEERING	15	41	4
13BJ5A0306	R4103B	SIMULATION LAB	23	46	2
13BJ5A0306	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	42	2
13BJ5A0307	R41031	REFRIGERATION & AIR CONDITIONING	0	-1	0
13BJ5A0307	R41032	CAD/CAM	0	-1	0
13BJ5A0307	R41033	ALTERNATIVE SOURCES OF ENERGY	0	-1	0
13BJ5A0307	R41034	UNCONVENTIONAL MACHINING PROCESSES	0	-1	0
13BJ5A0307	R41035	MEMS	0	-1	0
13BJ5A0307	R41037	AUTOMOBILE ENGINEERING	0	-1	0
13BJ5A0307	R4103B	SIMULATION LAB	23	-1	0
13BJ5A0307	R4103C	ADVANCED COMMUNICATION SKILLS LAB	18	-1	0
13BJ5A0308	R41031	REFRIGERATION & AIR CONDITIONING	19	42	4
13BJ5A0308	R41032	CAD/CAM	19	43	4
13BJ5A0308	R41033	ALTERNATIVE SOURCES OF ENERGY	17	59	4
13BJ5A0308	R41034	UNCONVENTIONAL MACHINING PROCESSES	21	30	4
13BJ5A0308	R41035	MEMS	19	30	4
13BJ5A0308	R41037	AUTOMOBILE ENGINEERING	19	15	0
13BJ5A0308	R4103B	SIMULATION LAB	23	46	2
13BJ5A0308	R4103C	ADVANCED COMMUNICATION SKILLS LAB	21	47	2
13BJ5A0309	R41031	REFRIGERATION & AIR CONDITIONING	14	30	4
13BJ5A0309	R41032	CAD/CAM	14	26	4
13BJ5A0309	R41033	ALTERNATIVE SOURCES OF ENERGY	13	30	4
13BJ5A0309	R41034	UNCONVENTIONAL MACHINING PROCESSES	14	29	4
13BJ5A0309	R41035	MEMS	17	29	4
13BJ5A0309	R41037	AUTOMOBILE ENGINEERING	19	13	0
13BJ5A0309	R4103B	SIMULATION LAB	23	45	2
13BJ5A0309	R4103C	ADVANCED COMMUNICATION SKILLS LAB	20	46	2

Htno	Subcode	Subname	Internal	External	credits
13BJ5A0401	R41026	INSTRUMENTATION	22	38	4
13BJ5A0401	R41041	OPTICAL COMMUNICATIONS	24	46	4
13BJ5A0401	R41042	EMBEDDED SYSTEMS	25	60	4
13BJ5A0401	R41043	DIGITAL IMAGE PROCESSING	24	29	4
13BJ5A0401	R41044	RADAR SYSTEMS	24	38	4
13BJ5A0401	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	23	35	4
13BJ5A0401	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	50	2
13BJ5A0401	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	25	50	2
13BJ5A0403	R41026	INSTRUMENTATION	24	31	4
13BJ5A0403	R41041	OPTICAL COMMUNICATIONS	25	43	4
13BJ5A0403	R41042	EMBEDDED SYSTEMS	23	41	4
13BJ5A0403	R41043	DIGITAL IMAGE PROCESSING	20	26	4
13BJ5A0403	R41044	RADAR SYSTEMS	24	38	4
13BJ5A0403	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	46	4
13BJ5A0403	R4104B	DIGITAL SIGNAL PROCESSING LAB	24	49	2
13BJ5A0403	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	47	2
13BJ5A0404	R41026	INSTRUMENTATION	24	35	4
13BJ5A0404	R41041	OPTICAL COMMUNICATIONS	25	44	4
13BJ5A0404	R41042	EMBEDDED SYSTEMS	21	40	4
13BJ5A0404	R41043	DIGITAL IMAGE PROCESSING	24	26	4
13BJ5A0404	R41044	RADAR SYSTEMS	20	18	0
13BJ5A0404	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	21	35	4
13BJ5A0404	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
13BJ5A0404	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	45	2
13BJ5A0405	R41026	INSTRUMENTATION	23	26	4
13BJ5A0405	R41041	OPTICAL COMMUNICATIONS	20	14	0
13BJ5A0405	R41042	EMBEDDED SYSTEMS	22	36	4
13BJ5A0405	R41043	DIGITAL IMAGE PROCESSING	20	26	4
13BJ5A0405	R41044	RADAR SYSTEMS	19	14	0
13BJ5A0405	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	36	4
13BJ5A0405	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	48	2
13BJ5A0405	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	24	49	2
13BJ5A0406	R41026	INSTRUMENTATION	22	31	4
13BJ5A0406	R41041	OPTICAL COMMUNICATIONS	18	43	4
13BJ5A0406	R41042	EMBEDDED SYSTEMS	19	69	4
13BJ5A0406	R41043	DIGITAL IMAGE PROCESSING	21	12	0
13BJ5A0406	R41044	RADAR SYSTEMS	16	32	4
13BJ5A0406	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	18	28	4
13BJ5A0406	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
13BJ5A0406	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	40	2
13BJ5A0407	R41026	INSTRUMENTATION	20	27	4
13BJ5A0407	R41041	OPTICAL COMMUNICATIONS	16	38	4
13BJ5A0407	R41042	EMBEDDED SYSTEMS	17	13	0
13BJ5A0407	R41043	DIGITAL IMAGE PROCESSING	22	0	0
13BJ5A0407	R41044	RADAR SYSTEMS	12	28	4
13BJ5A0407	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	42	4
13BJ5A0407	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	47	2
13BJ5A0407	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	14	40	2
13BJ5A0408	R41026	INSTRUMENTATION	16	16	0
13BJ5A0408	R41041	OPTICAL COMMUNICATIONS	14	29	4
13BJ5A0408	R41042	EMBEDDED SYSTEMS	17	34	4



Htno	Subcode	Subname	Internal	External	credits
13BJ5A0408	R41043	DIGITAL IMAGE PROCESSING	18	12	0
13BJ5A0408	R41044	RADAR SYSTEMS	14	4	0
13BJ5A0408	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	8	0
13BJ5A0408	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
13BJ5A0408	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	18	43	2
13BJ5A0409	R41026	INSTRUMENTATION	14	18	0
13BJ5A0409	R41041	OPTICAL COMMUNICATIONS	15	14	0
13BJ5A0409	R41042	EMBEDDED SYSTEMS	13	30	4
13BJ5A0409	R41043	DIGITAL IMAGE PROCESSING	18	8	0
13BJ5A0409	R41044	RADAR SYSTEMS	14	12	0
13BJ5A0409	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	17	10	0
13BJ5A0409	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
13BJ5A0409	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	43	2
13BJ5A0410	R41026	INSTRUMENTATION	21	34	4
13BJ5A0410	R41041	OPTICAL COMMUNICATIONS	17	36	4
13BJ5A0410	R41042	EMBEDDED SYSTEMS	14	26	4
13BJ5A0410	R41043	DIGITAL IMAGE PROCESSING	22	13	0
13BJ5A0410	R41044	RADAR SYSTEMS	16	15	0
13BJ5A0410	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	20	26	4
13BJ5A0410	R4104B	DIGITAL SIGNAL PROCESSING LAB	25	49	2
13BJ5A0410	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	23	43	2
13BJ5A0411	R41026	INSTRUMENTATION	22	28	4
13BJ5A0411	R41041	OPTICAL COMMUNICATIONS	16	42	4
13BJ5A0411	R41042	EMBEDDED SYSTEMS	18	31	4
13BJ5A0411	R41043	DIGITAL IMAGE PROCESSING	19	2	0
13BJ5A0411	R41044	RADAR SYSTEMS	19	27	4
13BJ5A0411	R41045	TELECOMMUNICATION SWITCHING SYSTEMS	19	32	4
13BJ5A0411	R4104B	DIGITAL SIGNAL PROCESSING LAB	23	46	2
13BJ5A0411	R4104C	MICROWAVE AND OPTICAL COMMUNICATIONS LAB	20	43	2
13BJ5A0501	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	18	30	4
13BJ5A0501	R41052	UML & DESIGN PATTERNS	15	37	4
13BJ5A0501	R41053	DATA WARE HOUSING AND DATA MINING	19	46	4
13BJ5A0501	R41054	MOBILE COMPUTING	21	34	4
13BJ5A0501	R41057	OPEN SOURCE SOFTWARE	15	10	0
13BJ5A0501	R4105B	SOFTWARE PROJECT MANAGEMENT	25	39	4
13BJ5A0501	R4105E	UML & DESIGN PATTERNS LAB	25	50	2
13BJ5A0501	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	23	49	2
13BJ5A0502	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	14	27	4
13BJ5A0502	R41052	UML & DESIGN PATTERNS	14	26	4
13BJ5A0502	R41053	DATA WARE HOUSING AND DATA MINING	15	26	4
13BJ5A0502	R41054	MOBILE COMPUTING	20	29	4
13BJ5A0502	R41057	OPEN SOURCE SOFTWARE	23	17	0
13BJ5A0502	R4105B	SOFTWARE PROJECT MANAGEMENT	24	15	0
13BJ5A0502	R4105E	UML & DESIGN PATTERNS LAB	23	47	2
13BJ5A0502	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	20	46	2
13BJ5A0503	R41051	CRYPTOGRAPHY AND NETWORK SECURITY	13	27	4
13BJ5A0503	R41052	UML & DESIGN PATTERNS	14	15	0
13BJ5A0503	R41053	DATA WARE HOUSING AND DATA MINING	16	35	4
13BJ5A0503	R41054	MOBILE COMPUTING	18	28	4
13BJ5A0503	R41057	OPEN SOURCE SOFTWARE	21	26	4
13BJ5A0503	R4105B	SOFTWARE PROJECT MANAGEMENT	23	31	4

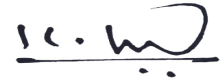
Htno	Subcode	Subname	Internal	External	credits
13BJ5A0503	R4105E	UML & DESIGN PATTERNS LAB	23	46	2
13BJ5A0503	R4105F	MOBILE APPLICATION DEVELOPMENT LAB	23	48	2

**\*\*Note:-** For Recounting/Revaluation/Challenge By Revaluation Apply through College PORTAL by Examination Incharge only on or before 04-02-2016.

**\*\* Note:\*\***

- \* -1 in the filed of externals indicates student absent for the respective subject.
- \* -2 in the filed of externals indicates student Withheld for the respective subject.
- \* -3 in the filed of externals indicates student Malpractice for the respective subject.

Date:29-01-2016



Controller of Examinations