



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Result of II B.Tech [R10] II Semester Supply Examinations Jan-2015

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

| Htno       | Subcode | Subname                              | Internal | External | credits |
|------------|---------|--------------------------------------|----------|----------|---------|
| 09BJ1A0429 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 8        | -1       | 0       |
| 09BJ1A0429 | R22026  | CONTROL SYSTEMS                      | 12       | -1       | 0       |
| 09BJ1A0429 | R22042  | EMWTL                                | 13       | -1       | 0       |
| 09BJ1A0526 | R22054  | COMPUTER ORGANIZATION                | 14       | 14       | 0       |
| 09BJ1A0526 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY | 16       | 5        | 0       |
| 09BJ1A0526 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES  | 17       | 0        | 0       |
| 109T1A0406 | R22021  | PULSE & DIGITAL CIRCUITS             | 13       | -1       | 0       |
| 109T1A0406 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 11       | -1       | 0       |
| 109T1A0406 | R22041  | ANALOG COMMUNICATIONS                | 11       | -1       | 0       |
| 109T1A0406 | R22042  | EMWTL                                | 14       | -1       | 0       |
| 109T1A0406 | R22043  | ELECTRONIC CIRCUIT ANALYSIS          | 9        | -1       | 0       |
| 10BJ1A0205 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 17       | 0        | 0       |
| 10BJ1A0205 | R22025  | ELECTRICAL CIRCUIT ANALYSIS-II       | 13       | -1       | 0       |
| 10BJ1A0205 | R22026  | CONTROL SYSTEMS                      | 13       | 8        | 0       |
| 10BJ1A0208 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 16       | 29       | 4       |
| 10BJ1A0209 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 19       | -1       | 0       |
| 10BJ1A0229 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 17       | 2        | 0       |
| 10BJ1A0237 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 15       | 0        | 0       |
| 10BJ1A0237 | R22024  | ELECTRICAL MACHINES-II               | 7        | 0        | 0       |
| 10BJ1A0237 | R22025  | ELECTRICAL CIRCUIT ANALYSIS-II       | 9        | 15       | 0       |
| 10BJ1A0239 | R22022  | POWER SYSTEMS-I                      | 7        | 0        | 0       |
| 10BJ1A0239 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 17       | 0        | 0       |
| 10BJ1A0239 | R22024  | ELECTRICAL MACHINES-II               | 11       | 0        | 0       |
| 10BJ1A0239 | R22026  | CONTROL SYSTEMS                      | 13       | 4        | 0       |
| 10BJ1A0313 | R22031  | MECHANICS OF SOLIDS                  | 14       | 13       | 0       |
| 10BJ1A0335 | R22031  | MECHANICS OF SOLIDS                  | 11       | 16       | 0       |
| 10BJ1A0401 | R22042  | EMWTL                                | 14       | 45       | 4       |
| 10BJ1A0401 | R22043  | ELECTRONIC CIRCUIT ANALYSIS          | 13       | 29       | 4       |
| 10BJ1A0406 | R22026  | CONTROL SYSTEMS                      | 12       | 36       | 4       |
| 10BJ1A0420 | R22026  | CONTROL SYSTEMS                      | 13       | 53       | 4       |
| 10BJ1A0421 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 18       | 2        | 0       |
| 10BJ1A0421 | R22026  | CONTROL SYSTEMS                      | 6        | -1       | 0       |
| 10BJ1A0430 | R22026  | CONTROL SYSTEMS                      | 12       | 16       | 0       |
| 10BJ1A0435 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 14       | 4        | 0       |
| 10BJ1A0435 | R22026  | CONTROL SYSTEMS                      | 13       | -1       | 0       |
| 10BJ1A0435 | R22043  | ELECTRONIC CIRCUIT ANALYSIS          | 11       | -1       | 0       |
| 10BJ1A0436 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 15       | -1       | 0       |
| 10BJ1A0436 | R22026  | CONTROL SYSTEMS                      | 8        | -1       | 0       |
| 10BJ1A0437 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 14       | -1       | 0       |
| 10BJ1A0437 | R22026  | CONTROL SYSTEMS                      | 10       | -1       | 0       |
| 10BJ1A0439 | R22019  | ENGLISH COMMUNICATION PRACTICE LAB   | 14       | -1       | 0       |
| 10BJ1A0439 | R22021  | PULSE & DIGITAL CIRCUITS             | 13       | -1       | 0       |
| 10BJ1A0439 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 13       | -1       | 0       |
| 10BJ1A0439 | R22041  | ANALOG COMMUNICATIONS                | 17       | -1       | 0       |
| 10BJ1A0439 | R22042  | EMWTL                                | 16       | -1       | 0       |
| 10BJ1A0439 | R22043  | ELECTRONIC CIRCUIT ANALYSIS          | 13       | -1       | 0       |

| Htno       | Subcode | Subname                              | Internal | External | credits |
|------------|---------|--------------------------------------|----------|----------|---------|
| 10BJ1A0439 | R22044  | ELECTRONICS CIRCUITS & PDC LAB       | 23       | 38       | 2       |
| 10BJ1A0439 | R22045  | ANALOG COMMUNICATIONS LAB            | 23       | 38       | 2       |
| 10BJ1A0441 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 17       | 6        | 0       |
| 10BJ1A0441 | R22026  | CONTROL SYSTEMS                      | 11       | 11       | 0       |
| 10BJ1A0441 | R22043  | ELECTRONIC CIRCUIT ANALYSIS          | 14       | 6        | 0       |
| 10BJ1A0448 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 17       | 9        | 0       |
| 10BJ1A0448 | R22026  | CONTROL SYSTEMS                      | 14       | 39       | 4       |
| 10BJ1A0449 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 15       | 3        | 0       |
| 10BJ1A0449 | R22026  | CONTROL SYSTEMS                      | 7        | -1       | 0       |
| 10BJ1A0451 | R22026  | CONTROL SYSTEMS                      | 15       | 41       | 4       |
| 10BJ1A0451 | R22041  | ANALOG COMMUNICATIONS                | 13       | 10       | 0       |
| 10BJ1A0452 | R22026  | CONTROL SYSTEMS                      | 9        | -1       | 0       |
| 10BJ1A0570 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY | 17       | -1       | 0       |
| 11BJ1A0303 | R22034  | PRODUCTION TECHNOLOGY                | 17       | 34       | 4       |
| 11BJ1A0307 | R22035  | METALL. & MATER. SCI.                | 18       | 27       | 4       |
| 11BJ1A0309 | R22032  | KINEMATICS OF MACHINERY              | 17       | 6        | 0       |
| 11BJ1A0316 | R22034  | PRODUCTION TECHNOLOGY                | 15       | 14       | 0       |
| 11BJ1A0318 | R22031  | MECHANICS OF SOLIDS                  | 19       | 17       | 0       |
| 11BJ1A0319 | R22031  | MECHANICS OF SOLIDS                  | 10       | -1       | 0       |
| 11BJ1A0322 | R22031  | MECHANICS OF SOLIDS                  | 18       | 40       | 4       |
| 11BJ1A0327 | R22034  | PRODUCTION TECHNOLOGY                | 21       | 0        | 0       |
| 11BJ1A0327 | R22036  | MACHINE DRAWING                      | 22       | 0        | 0       |
| 11BJ1A0329 | R22031  | MECHANICS OF SOLIDS                  | 20       | 14       | 0       |
| 11BJ1A0330 | R22031  | MECHANICS OF SOLIDS                  | 18       | 27       | 4       |
| 11BJ1A0403 | R22043  | ELECTRONIC CIRCUIT ANALYSIS          | 15       | 7        | 0       |
| 11BJ1A0410 | R22026  | CONTROL SYSTEMS                      | 17       | 30       | 4       |
| 11BJ1A0423 | R22021  | PULSE & DIGITAL CIRCUITS             | 0        | 0        | 0       |
| 11BJ1A0423 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 9        | -1       | 0       |
| 11BJ1A0423 | R22026  | CONTROL SYSTEMS                      | 13       | 33       | 4       |
| 11BJ1A0423 | R22043  | ELECTRONIC CIRCUIT ANALYSIS          | 12       | 0        | 0       |
| 11BJ1A0426 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 13       | 16       | 0       |
| 11BJ1A0426 | R22026  | CONTROL SYSTEMS                      | 12       | 14       | 0       |
| 11BJ1A0430 | R22026  | CONTROL SYSTEMS                      | 17       | 15       | 0       |
| 11BJ1A0432 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 7        | 0        | 0       |
| 11BJ1A0432 | R22026  | CONTROL SYSTEMS                      | 11       | 37       | 4       |
| 11BJ1A0432 | R22041  | ANALOG COMMUNICATIONS                | 12       | -1       | 0       |
| 11BJ1A0438 | R22026  | CONTROL SYSTEMS                      | 15       | 60       | 4       |
| 11BJ1A0441 | R22026  | CONTROL SYSTEMS                      | 12       | 33       | 4       |
| 11BJ1A0443 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 7        | 0        | 0       |
| 11BJ1A0443 | R22026  | CONTROL SYSTEMS                      | 14       | 15       | 0       |
| 11BJ1A0451 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 7        | 0        | 0       |
| 11BJ1A0451 | R22026  | CONTROL SYSTEMS                      | 16       | 36       | 4       |
| 11BJ1A0456 | R22021  | PULSE & DIGITAL CIRCUITS             | 15       | 3        | 0       |
| 11BJ1A0456 | R22026  | CONTROL SYSTEMS                      | 14       | 59       | 4       |
| 11BJ1A0466 | R22026  | CONTROL SYSTEMS                      | 18       | 33       | 4       |
| 11BJ1A0467 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 7        | 0        | 0       |
| 11BJ1A0467 | R22026  | CONTROL SYSTEMS                      | 14       | 31       | 4       |
| 11BJ1A0468 | R22026  | CONTROL SYSTEMS                      | 15       | 41       | 4       |
| 11BJ1A0473 | R22021  | PULSE & DIGITAL CIRCUITS             | 18       | -1       | 0       |
| 11BJ1A0473 | R22023  | SWITCHING THEORY & LOGIC DESIGN      | 15       | -1       | 0       |
| 11BJ1A0473 | R22026  | CONTROL SYSTEMS                      | 15       | -1       | 0       |

| Htno       | Subcode | Subname                                  | Internal | External | credits |
|------------|---------|--|----------|----------|---------|
| 11BJ1A0473 | R22041  | ANALOG COMMUNICATIONS                    | 15       | -1       | 0       |
| 11BJ1A0473 | R22042  | EMWTL                                    | 15       | -1       | 0       |
| 11BJ1A0473 | R22043  | ELECTRONIC CIRCUIT ANALYSIS              | 15       | -1       | 0       |
| 11BJ1A0521 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 15       | 12       | 0       |
| 11BJ1A0521 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 12       | 0        | 0       |
| 11BJ1A0522 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 19       | 17       | 0       |
| 11BJ1A0524 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 19       | 0        | 0       |
| 11BJ1A0529 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 5        | -1       | 0       |
| 11BJ1A0529 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 12       | -1       | 0       |
| 11BJ1A0529 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 11       | -1       | 0       |
| 11BJ1A0534 | R22054  | COMPUTER ORGANIZATION                    | 10       | 40       | 4       |
| 11BJ1A0535 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 13       | 10       | 0       |
| 11BJ1A0535 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 8        | 2        | 0       |
| 11BJ1A0538 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 5        | 0        | 0       |
| 11BJ1A0541 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 22       | 9        | 0       |
| 11BJ1A0542 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 23       | 10       | 0       |
| 11BJ1A0542 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 15       | 5        | 0       |
| 11BJ1A0543 | R22054  | COMPUTER ORGANIZATION                    | 13       | -1       | 0       |
| 11BJ1A0543 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 16       | 0        | 0       |
| 11BJ1A0543 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 14       | 1        | 0       |
| 11BJ1A0544 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 20       | 43       | 4       |
| 11FE1A0206 | R22021  | PULSE & DIGITAL CIRCUITS                 | 6        | -1       | 0       |
| 11FE1A0206 | R22022  | POWER SYSTEMS-I                          | 8        | -1       | 0       |
| 11FE1A0206 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 9        | -1       | 0       |
| 11FE1A0206 | R22024  | ELECTRICAL MACHINES-II                   | 2        | -1       | 0       |
| 11FE1A0206 | R22026  | CONTROL SYSTEMS                          | 5        | -1       | 0       |
| 11FE1A0206 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 9        | -1       | 0       |
| 11NA1A0402 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 1        | -1       | 0       |
| 11NA1A0402 | R22026  | CONTROL SYSTEMS                          | 5        | -1       | 0       |
| 12BJ1A0201 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 20       | 47       | 4       |
| 12BJ1A0201 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 20       | 12       | 0       |
| 12BJ1A0202 | R22021  | PULSE & DIGITAL CIRCUITS                 | 14       | 3        | 0       |
| 12BJ1A0202 | R22022  | POWER SYSTEMS-I                          | 15       | 14       | 0       |
| 12BJ1A0202 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 14       | 13       | 0       |
| 12BJ1A0202 | R22024  | ELECTRICAL MACHINES-II                   | 20       | 4        | 0       |
| 12BJ1A0202 | R22026  | CONTROL SYSTEMS                          | 14       | 4        | 0       |
| 12BJ1A0205 | R22022  | POWER SYSTEMS-I                          | 21       | 33       | 4       |
| 12BJ1A0205 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 21       | 7        | 0       |
| 12BJ1A0208 | R22021  | PULSE & DIGITAL CIRCUITS                 | 15       | 4        | 0       |
| 12BJ1A0208 | R22022  | POWER SYSTEMS-I                          | 14       | 12       | 0       |
| 12BJ1A0208 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 14       | 0        | 0       |
| 12BJ1A0208 | R22024  | ELECTRICAL MACHINES-II                   | 18       | 0        | 0       |
| 12BJ1A0208 | R22026  | CONTROL SYSTEMS                          | 14       | 2        | 0       |
| 12BJ1A0208 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 14       | 0        | 0       |
| 12BJ1A0209 | R22021  | PULSE & DIGITAL CIRCUITS                 | 14       | -1       | 0       |
| 12BJ1A0209 | R22022  | POWER SYSTEMS-I                          | 16       | -1       | 0       |
| 12BJ1A0209 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 16       | -1       | 0       |
| 12BJ1A0209 | R22024  | ELECTRICAL MACHINES-II                   | 14       | -1       | 0       |
| 12BJ1A0209 | R22026  | CONTROL SYSTEMS                          | 14       | -1       | 0       |
| 12BJ1A0209 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 14       | -1       | 0       |
| 12BJ1A0210 | R22021  | PULSE & DIGITAL CIRCUITS                 | 17       | 0        | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A0210 | R22022  | POWER SYSTEMS-I                 | 15       | 13       | 0       |
| 12BJ1A0210 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 0        | 0       |
| 12BJ1A0210 | R22024  | ELECTRICAL MACHINES-II          | 16       | 0        | 0       |
| 12BJ1A0210 | R22026  | CONTROL SYSTEMS                 | 15       | 30       | 4       |
| 12BJ1A0210 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 15       | 3        | 0       |
| 12BJ1A0212 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 4        | 0       |
| 12BJ1A0212 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 14       | 2        | 0       |
| 12BJ1A0212 | R22026  | CONTROL SYSTEMS                 | 14       | 2        | 0       |
| 12BJ1A0212 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 16       | 1        | 0       |
| 12BJ1A0214 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 0        | 0       |
| 12BJ1A0214 | R22022  | POWER SYSTEMS-I                 | 16       | 38       | 4       |
| 12BJ1A0214 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 28       | 4       |
| 12BJ1A0214 | R22026  | CONTROL SYSTEMS                 | 15       | 2        | 0       |
| 12BJ1A0214 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 16       | 4        | 0       |
| 12BJ1A0215 | R22021  | PULSE & DIGITAL CIRCUITS        | 14       | 0        | 0       |
| 12BJ1A0215 | R22022  | POWER SYSTEMS-I                 | 15       | 0        | 0       |
| 12BJ1A0215 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | -1       | 0       |
| 12BJ1A0215 | R22024  | ELECTRICAL MACHINES-II          | 14       | 0        | 0       |
| 12BJ1A0215 | R22026  | CONTROL SYSTEMS                 | 14       | -1       | 0       |
| 12BJ1A0215 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 14       | -1       | 0       |
| 12BJ1A0216 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 0        | 0       |
| 12BJ1A0216 | R22022  | POWER SYSTEMS-I                 | 18       | 37       | 4       |
| 12BJ1A0216 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 0        | 0       |
| 12BJ1A0216 | R22024  | ELECTRICAL MACHINES-II          | 19       | 2        | 0       |
| 12BJ1A0216 | R22026  | CONTROL SYSTEMS                 | 14       | 28       | 4       |
| 12BJ1A0216 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 15       | 5        | 0       |
| 12BJ1A0218 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 0        | 0       |
| 12BJ1A0218 | R22022  | POWER SYSTEMS-I                 | 18       | 0        | 0       |
| 12BJ1A0218 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 0        | 0       |
| 12BJ1A0218 | R22024  | ELECTRICAL MACHINES-II          | 16       | -1       | 0       |
| 12BJ1A0218 | R22026  | CONTROL SYSTEMS                 | 15       | 1        | 0       |
| 12BJ1A0218 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 18       | 0        | 0       |
| 12BJ1A0220 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 0        | 0       |
| 12BJ1A0220 | R22022  | POWER SYSTEMS-I                 | 16       | 4        | 0       |
| 12BJ1A0220 | R22024  | ELECTRICAL MACHINES-II          | 19       | 0        | 0       |
| 12BJ1A0220 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 16       | 0        | 0       |
| 12BJ1A0223 | R22024  | ELECTRICAL MACHINES-II          | 20       | 33       | 4       |
| 12BJ1A0224 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 10       | 0       |
| 12BJ1A0224 | R22026  | CONTROL SYSTEMS                 | 17       | 11       | 0       |
| 12BJ1A0225 | R22026  | CONTROL SYSTEMS                 | 20       | 20       | 0       |
| 12BJ1A0226 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 13       | 0       |
| 12BJ1A0226 | R22022  | POWER SYSTEMS-I                 | 22       | 18       | 0       |
| 12BJ1A0226 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 20       | 13       | 0       |
| 12BJ1A0226 | R22026  | CONTROL SYSTEMS                 | 21       | 14       | 0       |
| 12BJ1A0226 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 21       | 3        | 0       |
| 12BJ1A0227 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 0        | 0       |
| 12BJ1A0227 | R22022  | POWER SYSTEMS-I                 | 14       | 9        | 0       |
| 12BJ1A0227 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 4        | 0       |
| 12BJ1A0227 | R22024  | ELECTRICAL MACHINES-II          | 18       | 2        | 0       |
| 12BJ1A0227 | R22026  | CONTROL SYSTEMS                 | 22       | 12       | 0       |
| 12BJ1A0227 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 17       | 2        | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A0229 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 2        | 0       |
| 12BJ1A0229 | R22024  | ELECTRICAL MACHINES-II          | 20       | 1        | 0       |
| 12BJ1A0229 | R22026  | CONTROL SYSTEMS                 | 16       | 11       | 0       |
| 12BJ1A0232 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 0        | 0       |
| 12BJ1A0232 | R22022  | POWER SYSTEMS-I                 | 23       | 0        | 0       |
| 12BJ1A0232 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 0        | 0       |
| 12BJ1A0232 | R22024  | ELECTRICAL MACHINES-II          | 17       | 0        | 0       |
| 12BJ1A0232 | R22026  | CONTROL SYSTEMS                 | 19       | 32       | 4       |
| 12BJ1A0232 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 19       | -1       | 0       |
| 12BJ1A0236 | R22021  | PULSE & DIGITAL CIRCUITS        | 14       | 0        | 0       |
| 12BJ1A0236 | R22022  | POWER SYSTEMS-I                 | 11       | 6        | 0       |
| 12BJ1A0236 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 0        | 0       |
| 12BJ1A0236 | R22024  | ELECTRICAL MACHINES-II          | 14       | 1        | 0       |
| 12BJ1A0236 | R22026  | CONTROL SYSTEMS                 | 18       | 1        | 0       |
| 12BJ1A0236 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 13       | 0        | 0       |
| 12BJ1A0238 | R22021  | PULSE & DIGITAL CIRCUITS        | 16       | 12       | 0       |
| 12BJ1A0238 | R22022  | POWER SYSTEMS-I                 | 21       | 0        | 0       |
| 12BJ1A0238 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 18       | 0       |
| 12BJ1A0238 | R22024  | ELECTRICAL MACHINES-II          | 17       | 0        | 0       |
| 12BJ1A0238 | R22026  | CONTROL SYSTEMS                 | 17       | -1       | 0       |
| 12BJ1A0238 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 13       | 0        | 0       |
| 12BJ1A0239 | R22024  | ELECTRICAL MACHINES-II          | 19       | 0        | 0       |
| 12BJ1A0239 | R22026  | CONTROL SYSTEMS                 | 16       | 4        | 0       |
| 12BJ1A0242 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 1        | 0       |
| 12BJ1A0242 | R22024  | ELECTRICAL MACHINES-II          | 14       | 2        | 0       |
| 12BJ1A0242 | R22026  | CONTROL SYSTEMS                 | 16       | 0        | 0       |
| 12BJ1A0243 | R22022  | POWER SYSTEMS-I                 | 18       | 16       | 0       |
| 12BJ1A0243 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 2        | 0       |
| 12BJ1A0243 | R22024  | ELECTRICAL MACHINES-II          | 17       | 12       | 0       |
| 12BJ1A0243 | R22026  | CONTROL SYSTEMS                 | 18       | 0        | 0       |
| 12BJ1A0243 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 19       | 2        | 0       |
| 12BJ1A0244 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 0        | 0       |
| 12BJ1A0244 | R22022  | POWER SYSTEMS-I                 | 16       | 0        | 0       |
| 12BJ1A0244 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 0        | 0       |
| 12BJ1A0244 | R22024  | ELECTRICAL MACHINES-II          | 16       | 4        | 0       |
| 12BJ1A0244 | R22026  | CONTROL SYSTEMS                 | 15       | 1        | 0       |
| 12BJ1A0244 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 19       | 0        | 0       |
| 12BJ1A0245 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 0        | 0       |
| 12BJ1A0245 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 21       | 15       | 0       |
| 12BJ1A0245 | R22024  | ELECTRICAL MACHINES-II          | 20       | 10       | 0       |
| 12BJ1A0246 | R22021  | PULSE & DIGITAL CIRCUITS        | 16       | 0        | 0       |
| 12BJ1A0246 | R22022  | POWER SYSTEMS-I                 | 15       | 39       | 4       |
| 12BJ1A0246 | R22024  | ELECTRICAL MACHINES-II          | 18       | 3        | 0       |
| 12BJ1A0246 | R22026  | CONTROL SYSTEMS                 | 19       | 2        | 0       |
| 12BJ1A0304 | R22032  | KINEMATICS OF MACHINERY         | 17       | 2        | 0       |
| 12BJ1A0304 | R22035  | METALL. & MATER. SCI.           | 17       | 34       | 4       |
| 12BJ1A0306 | R22031  | MECHANICS OF SOLIDS             | 18       | 29       | 4       |
| 12BJ1A0306 | R22032  | KINEMATICS OF MACHINERY         | 19       | 28       | 4       |
| 12BJ1A0306 | R22033  | THERMAL ENGINEERING -I          | 16       | 27       | 4       |
| 12BJ1A0306 | R22034  | PRODUCTION TECHNOLOGY           | 16       | 41       | 4       |
| 12BJ1A0306 | R22036  | MACHINE DRAWING                 | 17       | 26       | 4       |

| Htno       | Subcode | Subname                 | Internal | External | credits |
|------------|---------|-------------------------|----------|----------|---------|
| 12BJ1A0307 | R22031  | MECHANICS OF SOLIDS     | 15       | 9        | 0       |
| 12BJ1A0307 | R22032  | KINEMATICS OF MACHINERY | 12       | 0        | 0       |
| 12BJ1A0307 | R22033  | THERMAL ENGINEERING -I  | 16       | 0        | 0       |
| 12BJ1A0307 | R22034  | PRODUCTION TECHNOLOGY   | 12       | -1       | 0       |
| 12BJ1A0307 | R22035  | METALL. & MATER. SCI.   | 15       | 8        | 0       |
| 12BJ1A0307 | R22036  | MACHINE DRAWING         | 18       | 0        | 0       |
| 12BJ1A0309 | R22031  | MECHANICS OF SOLIDS     | 14       | 14       | 0       |
| 12BJ1A0309 | R22032  | KINEMATICS OF MACHINERY | 15       | 4        | 0       |
| 12BJ1A0309 | R22033  | THERMAL ENGINEERING -I  | 14       | 0        | 0       |
| 12BJ1A0309 | R22034  | PRODUCTION TECHNOLOGY   | 14       | 4        | 0       |
| 12BJ1A0309 | R22035  | METALL. & MATER. SCI.   | 16       | 28       | 4       |
| 12BJ1A0309 | R22036  | MACHINE DRAWING         | 15       | 8        | 0       |
| 12BJ1A0310 | R22033  | THERMAL ENGINEERING -I  | 17       | 36       | 4       |
| 12BJ1A0310 | R22036  | MACHINE DRAWING         | 25       | 43       | 4       |
| 12BJ1A0311 | R22031  | MECHANICS OF SOLIDS     | 15       | 13       | 0       |
| 12BJ1A0311 | R22032  | KINEMATICS OF MACHINERY | 16       | 1        | 0       |
| 12BJ1A0311 | R22033  | THERMAL ENGINEERING -I  | 17       | 0        | 0       |
| 12BJ1A0311 | R22034  | PRODUCTION TECHNOLOGY   | 16       | 17       | 0       |
| 12BJ1A0311 | R22035  | METALL. & MATER. SCI.   | 17       | 16       | 0       |
| 12BJ1A0311 | R22036  | MACHINE DRAWING         | 19       | 28       | 4       |
| 12BJ1A0312 | R22031  | MECHANICS OF SOLIDS     | 14       | 13       | 0       |
| 12BJ1A0312 | R22032  | KINEMATICS OF MACHINERY | 18       | 0        | 0       |
| 12BJ1A0312 | R22033  | THERMAL ENGINEERING -I  | 16       | 0        | 0       |
| 12BJ1A0312 | R22034  | PRODUCTION TECHNOLOGY   | 16       | 1        | 0       |
| 12BJ1A0312 | R22035  | METALL. & MATER. SCI.   | 18       | 39       | 4       |
| 12BJ1A0312 | R22036  | MACHINE DRAWING         | 18       | 1        | 0       |
| 12BJ1A0316 | R22032  | KINEMATICS OF MACHINERY | 19       | 7        | 0       |
| 12BJ1A0316 | R22033  | THERMAL ENGINEERING -I  | 17       | 14       | 0       |
| 12BJ1A0316 | R22035  | METALL. & MATER. SCI.   | 19       | 17       | 0       |
| 12BJ1A0317 | R22031  | MECHANICS OF SOLIDS     | 18       | 46       | 4       |
| 12BJ1A0317 | R22035  | METALL. & MATER. SCI.   | 17       | 32       | 4       |
| 12BJ1A0318 | R22034  | PRODUCTION TECHNOLOGY   | 15       | 33       | 4       |
| 12BJ1A0318 | R22036  | MACHINE DRAWING         | 20       | 7        | 0       |
| 12BJ1A0320 | R22031  | MECHANICS OF SOLIDS     | 17       | 4        | 0       |
| 12BJ1A0320 | R22032  | KINEMATICS OF MACHINERY | 15       | 0        | 0       |
| 12BJ1A0320 | R22033  | THERMAL ENGINEERING -I  | 17       | 12       | 0       |
| 12BJ1A0320 | R22034  | PRODUCTION TECHNOLOGY   | 14       | 0        | 0       |
| 12BJ1A0320 | R22035  | METALL. & MATER. SCI.   | 18       | 28       | 4       |
| 12BJ1A0320 | R22036  | MACHINE DRAWING         | 22       | 5        | 0       |
| 12BJ1A0321 | R22033  | THERMAL ENGINEERING -I  | 16       | 10       | 0       |
| 12BJ1A0321 | R22035  | METALL. & MATER. SCI.   | 15       | 31       | 4       |
| 12BJ1A0322 | R22031  | MECHANICS OF SOLIDS     | 13       | 27       | 4       |
| 12BJ1A0322 | R22032  | KINEMATICS OF MACHINERY | 17       | 6        | 0       |
| 12BJ1A0322 | R22033  | THERMAL ENGINEERING -I  | 14       | 31       | 4       |
| 12BJ1A0322 | R22034  | PRODUCTION TECHNOLOGY   | 18       | 0        | 0       |
| 12BJ1A0322 | R22035  | METALL. & MATER. SCI.   | 17       | 28       | 4       |
| 12BJ1A0322 | R22036  | MACHINE DRAWING         | 15       | 0        | 0       |
| 12BJ1A0323 | R22034  | PRODUCTION TECHNOLOGY   | 17       | 49       | 4       |
| 12BJ1A0325 | R22035  | METALL. & MATER. SCI.   | 17       | 49       | 4       |
| 12BJ1A0326 | R22034  | PRODUCTION TECHNOLOGY   | 16       | 36       | 4       |
| 12BJ1A0326 | R22036  | MACHINE DRAWING         | 18       | 36       | 4       |

| Htno       | Subcode | Subname                 | Internal | External | credits |
|------------|---------|-------------------------|----------|----------|---------|
| 12BJ1A0327 | R22033  | THERMAL ENGINEERING -I  | 18       | 36       | 4       |
| 12BJ1A0327 | R22034  | PRODUCTION TECHNOLOGY   | 17       | 31       | 4       |
| 12BJ1A0327 | R22035  | METALL. & MATER. SCI.   | 19       | 27       | 4       |
| 12BJ1A0327 | R22036  | MACHINE DRAWING         | 16       | 12       | 0       |
| 12BJ1A0328 | R22032  | KINEMATICS OF MACHINERY | 17       | 0        | 0       |
| 12BJ1A0328 | R22035  | METALL. & MATER. SCI.   | 17       | 29       | 4       |
| 12BJ1A0329 | R22031  | MECHANICS OF SOLIDS     | 14       | 3        | 0       |
| 12BJ1A0329 | R22032  | KINEMATICS OF MACHINERY | 17       | 0        | 0       |
| 12BJ1A0329 | R22033  | THERMAL ENGINEERING -I  | 16       | 0        | 0       |
| 12BJ1A0329 | R22034  | PRODUCTION TECHNOLOGY   | 17       | 0        | 0       |
| 12BJ1A0329 | R22035  | METALL. & MATER. SCI.   | 16       | 32       | 4       |
| 12BJ1A0329 | R22036  | MACHINE DRAWING         | 19       | 0        | 0       |
| 12BJ1A0330 | R22032  | KINEMATICS OF MACHINERY | 18       | 1        | 0       |
| 12BJ1A0330 | R22034  | PRODUCTION TECHNOLOGY   | 16       | 42       | 4       |
| 12BJ1A0331 | R22031  | MECHANICS OF SOLIDS     | 19       | 37       | 4       |
| 12BJ1A0331 | R22032  | KINEMATICS OF MACHINERY | 17       | 2        | 0       |
| 12BJ1A0331 | R22033  | THERMAL ENGINEERING -I  | 17       | 5        | 0       |
| 12BJ1A0331 | R22034  | PRODUCTION TECHNOLOGY   | 15       | 0        | 0       |
| 12BJ1A0332 | R22032  | KINEMATICS OF MACHINERY | 17       | 29       | 4       |
| 12BJ1A0333 | R22031  | MECHANICS OF SOLIDS     | 16       | 28       | 4       |
| 12BJ1A0333 | R22032  | KINEMATICS OF MACHINERY | 12       | 0        | 0       |
| 12BJ1A0333 | R22033  | THERMAL ENGINEERING -I  | 16       | 26       | 4       |
| 12BJ1A0333 | R22035  | METALL. & MATER. SCI.   | 15       | 26       | 4       |
| 12BJ1A0333 | R22036  | MACHINE DRAWING         | 15       | 5        | 0       |
| 12BJ1A0336 | R22033  | THERMAL ENGINEERING -I  | 18       | 53       | 4       |
| 12BJ1A0336 | R22036  | MACHINE DRAWING         | 19       | 47       | 4       |
| 12BJ1A0337 | R22031  | MECHANICS OF SOLIDS     | 17       | 8        | 0       |
| 12BJ1A0337 | R22032  | KINEMATICS OF MACHINERY | 19       | 2        | 0       |
| 12BJ1A0337 | R22035  | METALL. & MATER. SCI.   | 16       | 46       | 4       |
| 12BJ1A0338 | R22035  | METALL. & MATER. SCI.   | 18       | 53       | 4       |
| 12BJ1A0339 | R22031  | MECHANICS OF SOLIDS     | 16       | -1       | 0       |
| 12BJ1A0339 | R22032  | KINEMATICS OF MACHINERY | 12       | -1       | 0       |
| 12BJ1A0339 | R22033  | THERMAL ENGINEERING -I  | 15       | 4        | 0       |
| 12BJ1A0339 | R22034  | PRODUCTION TECHNOLOGY   | 16       | 13       | 0       |
| 12BJ1A0339 | R22035  | METALL. & MATER. SCI.   | 12       | 26       | 0       |
| 12BJ1A0339 | R22036  | MACHINE DRAWING         | 18       | 0        | 0       |
| 12BJ1A0340 | R22031  | MECHANICS OF SOLIDS     | 17       | 11       | 0       |
| 12BJ1A0340 | R22032  | KINEMATICS OF MACHINERY | 13       | 0        | 0       |
| 12BJ1A0340 | R22033  | THERMAL ENGINEERING -I  | 14       | 0        | 0       |
| 12BJ1A0340 | R22034  | PRODUCTION TECHNOLOGY   | 12       | -1       | 0       |
| 12BJ1A0340 | R22035  | METALL. & MATER. SCI.   | 14       | 28       | 4       |
| 12BJ1A0340 | R22036  | MACHINE DRAWING         | 17       | 0        | 0       |
| 12BJ1A0341 | R22032  | KINEMATICS OF MACHINERY | 18       | 3        | 0       |
| 12BJ1A0341 | R22035  | METALL. & MATER. SCI.   | 14       | 14       | 0       |
| 12BJ1A0342 | R22035  | METALL. & MATER. SCI.   | 16       | 40       | 4       |
| 12BJ1A0342 | R22036  | MACHINE DRAWING         | 15       | 63       | 4       |
| 12BJ1A0343 | R22033  | THERMAL ENGINEERING -I  | 16       | 27       | 4       |
| 12BJ1A0343 | R22034  | PRODUCTION TECHNOLOGY   | 14       | 32       | 4       |
| 12BJ1A0343 | R22036  | MACHINE DRAWING         | 16       | 5        | 0       |
| 12BJ1A0345 | R22032  | KINEMATICS OF MACHINERY | 21       | 26       | 4       |
| 12BJ1A0345 | R22035  | METALL. & MATER. SCI.   | 19       | 33       | 4       |

| Htno       | Subcode | Subname                   | Internal | External | credits |
|------------|---------|---------------------------|----------|----------|---------|
| 12BJ1A0346 | R22035  | METALL. & MATER. SCI.     | 21       | 40       | 4       |
| 12BJ1A0346 | R22036  | MACHINE DRAWING           | 18       | 4        | 0       |
| 12BJ1A0347 | R22031  | MECHANICS OF SOLIDS       | 19       | 15       | 0       |
| 12BJ1A0347 | R22032  | KINEMATICS OF MACHINERY   | 17       | 2        | 0       |
| 12BJ1A0347 | R22033  | THERMAL ENGINEERING -I    | 18       | 3        | 0       |
| 12BJ1A0347 | R22034  | PRODUCTION TECHNOLOGY     | 14       | 0        | 0       |
| 12BJ1A0347 | R22035  | METALL. & MATER. SCI.     | 18       | 14       | 0       |
| 12BJ1A0347 | R22036  | MACHINE DRAWING           | 15       | 0        | 0       |
| 12BJ1A0349 | R22031  | MECHANICS OF SOLIDS       | 16       | 14       | 0       |
| 12BJ1A0349 | R22032  | KINEMATICS OF MACHINERY   | 16       | 0        | 0       |
| 12BJ1A0349 | R22033  | THERMAL ENGINEERING -I    | 15       | 8        | 0       |
| 12BJ1A0349 | R22034  | PRODUCTION TECHNOLOGY     | 17       | 4        | 0       |
| 12BJ1A0349 | R22035  | METALL. & MATER. SCI.     | 15       | 19       | 0       |
| 12BJ1A0349 | R22036  | MACHINE DRAWING           | 18       | 0        | 0       |
| 12BJ1A0350 | R22032  | KINEMATICS OF MACHINERY   | 19       | 4        | 0       |
| 12BJ1A0350 | R22033  | THERMAL ENGINEERING -I    | 17       | 0        | 0       |
| 12BJ1A0350 | R22034  | PRODUCTION TECHNOLOGY     | 17       | 30       | 4       |
| 12BJ1A0350 | R22035  | METALL. & MATER. SCI.     | 22       | 32       | 4       |
| 12BJ1A0351 | R22033  | THERMAL ENGINEERING -I    | 15       | 56       | 4       |
| 12BJ1A0352 | R22031  | MECHANICS OF SOLIDS       | 17       | 15       | 0       |
| 12BJ1A0352 | R22034  | PRODUCTION TECHNOLOGY     | 15       | 35       | 4       |
| 12BJ1A0352 | R22035  | METALL. & MATER. SCI.     | 16       | 50       | 4       |
| 12BJ1A0352 | R22036  | MACHINE DRAWING           | 15       | 10       | 0       |
| 12BJ1A0353 | R22032  | KINEMATICS OF MACHINERY   | 17       | 2        | 0       |
| 12BJ1A0353 | R22033  | THERMAL ENGINEERING -I    | 15       | 0        | 0       |
| 12BJ1A0353 | R22034  | PRODUCTION TECHNOLOGY     | 14       | 0        | 0       |
| 12BJ1A0355 | R22031  | MECHANICS OF SOLIDS       | 20       | 37       | 4       |
| 12BJ1A0355 | R22033  | THERMAL ENGINEERING -I    | 18       | 26       | 4       |
| 12BJ1A0355 | R22034  | PRODUCTION TECHNOLOGY     | 15       | 40       | 4       |
| 12BJ1A0355 | R22035  | METALL. & MATER. SCI.     | 16       | 39       | 4       |
| 12BJ1A0355 | R22036  | MACHINE DRAWING           | 22       | 12       | 0       |
| 12BJ1A0355 | R22038  | PRODUCTION TECHNOLOGY LAB | 24       | 46       | 2       |
| 12BJ1A0358 | R22033  | THERMAL ENGINEERING -I    | 18       | 5        | 0       |
| 12BJ1A0358 | R22034  | PRODUCTION TECHNOLOGY     | 16       | 0        | 0       |
| 12BJ1A0358 | R22035  | METALL. & MATER. SCI.     | 18       | 31       | 4       |
| 12BJ1A0358 | R22036  | MACHINE DRAWING           | 16       | 0        | 0       |
| 12BJ1A0359 | R22031  | MECHANICS OF SOLIDS       | 17       | 8        | 0       |
| 12BJ1A0359 | R22035  | METALL. & MATER. SCI.     | 17       | 15       | 0       |
| 12BJ1A0359 | R22036  | MACHINE DRAWING           | 16       | 13       | 0       |
| 12BJ1A0360 | R22031  | MECHANICS OF SOLIDS       | 16       | 11       | 0       |
| 12BJ1A0361 | R22032  | KINEMATICS OF MACHINERY   | 17       | 19       | 0       |
| 12BJ1A0364 | R22034  | PRODUCTION TECHNOLOGY     | 19       | -1       | 0       |
| 12BJ1A0364 | R22036  | MACHINE DRAWING           | 24       | 37       | 4       |
| 12BJ1A0367 | R22031  | MECHANICS OF SOLIDS       | 17       | 0        | 0       |
| 12BJ1A0367 | R22032  | KINEMATICS OF MACHINERY   | 18       | 2        | 0       |
| 12BJ1A0367 | R22033  | THERMAL ENGINEERING -I    | 14       | 0        | 0       |
| 12BJ1A0367 | R22034  | PRODUCTION TECHNOLOGY     | 16       | 0        | 0       |
| 12BJ1A0367 | R22035  | METALL. & MATER. SCI.     | 19       | 28       | 4       |
| 12BJ1A0367 | R22036  | MACHINE DRAWING           | 16       | 0        | 0       |
| 12BJ1A0371 | R22035  | METALL. & MATER. SCI.     | 16       | 42       | 4       |
| 12BJ1A0374 | R22031  | MECHANICS OF SOLIDS       | 17       | 0        | 0       |



| Htno       | Subcode | Subname                 | Internal | External | credits |
|------------|---------|-------------------------|----------|----------|---------|
| 12BJ1A0374 | R22033  | THERMAL ENGINEERING -I  | 17       | 39       | 4       |
| 12BJ1A0376 | R22032  | KINEMATICS OF MACHINERY | 19       | 27       | 4       |
| 12BJ1A0376 | R22033  | THERMAL ENGINEERING -I  | 21       | 46       | 4       |
| 12BJ1A0376 | R22034  | PRODUCTION TECHNOLOGY   | 18       | 40       | 4       |
| 12BJ1A0376 | R22036  | MACHINE DRAWING         | 18       | 6        | 0       |
| 12BJ1A0377 | R22032  | KINEMATICS OF MACHINERY | 15       | 4        | 0       |
| 12BJ1A0377 | R22033  | THERMAL ENGINEERING -I  | 18       | 1        | 0       |
| 12BJ1A0378 | R22031  | MECHANICS OF SOLIDS     | 18       | 29       | 4       |
| 12BJ1A0378 | R22032  | KINEMATICS OF MACHINERY | 15       | 4        | 0       |
| 12BJ1A0378 | R22035  | METALL. & MATER. SCI.   | 19       | 30       | 4       |
| 12BJ1A0379 | R22032  | KINEMATICS OF MACHINERY | 17       | 0        | 0       |
| 12BJ1A0379 | R22033  | THERMAL ENGINEERING -I  | 13       | 9        | 0       |
| 12BJ1A0379 | R22034  | PRODUCTION TECHNOLOGY   | 15       | 6        | 0       |
| 12BJ1A0379 | R22035  | METALL. & MATER. SCI.   | 18       | 35       | 4       |
| 12BJ1A0379 | R22036  | MACHINE DRAWING         | 15       | 0        | 0       |
| 12BJ1A0380 | R22031  | MECHANICS OF SOLIDS     | 17       | 0        | 0       |
| 12BJ1A0380 | R22032  | KINEMATICS OF MACHINERY | 17       | 0        | 0       |
| 12BJ1A0380 | R22033  | THERMAL ENGINEERING -I  | 17       | 7        | 0       |
| 12BJ1A0380 | R22034  | PRODUCTION TECHNOLOGY   | 15       | 28       | 4       |
| 12BJ1A0380 | R22035  | METALL. & MATER. SCI.   | 16       | 28       | 4       |
| 12BJ1A0380 | R22036  | MACHINE DRAWING         | 19       | 0        | 0       |
| 12BJ1A0381 | R22031  | MECHANICS OF SOLIDS     | 17       | 16       | 0       |
| 12BJ1A0381 | R22035  | METALL. & MATER. SCI.   | 19       | 27       | 4       |
| 12BJ1A0382 | R22031  | MECHANICS OF SOLIDS     | 18       | 0        | 0       |
| 12BJ1A0382 | R22032  | KINEMATICS OF MACHINERY | 17       | 0        | 0       |
| 12BJ1A0382 | R22033  | THERMAL ENGINEERING -I  | 17       | 4        | 0       |
| 12BJ1A0382 | R22034  | PRODUCTION TECHNOLOGY   | 15       | 0        | 0       |
| 12BJ1A0382 | R22035  | METALL. & MATER. SCI.   | 16       | 38       | 4       |
| 12BJ1A0382 | R22036  | MACHINE DRAWING         | 18       | 0        | 0       |
| 12BJ1A0386 | R22031  | MECHANICS OF SOLIDS     | 18       | 0        | 0       |
| 12BJ1A0386 | R22032  | KINEMATICS OF MACHINERY | 16       | 0        | 0       |
| 12BJ1A0386 | R22035  | METALL. & MATER. SCI.   | 14       | 32       | 4       |
| 12BJ1A0387 | R22031  | MECHANICS OF SOLIDS     | 15       | 0        | 0       |
| 12BJ1A0387 | R22032  | KINEMATICS OF MACHINERY | 17       | 0        | 0       |
| 12BJ1A0387 | R22033  | THERMAL ENGINEERING -I  | 17       | 2        | 0       |
| 12BJ1A0387 | R22034  | PRODUCTION TECHNOLOGY   | 18       | 14       | 0       |
| 12BJ1A0387 | R22035  | METALL. & MATER. SCI.   | 17       | 29       | 4       |
| 12BJ1A0388 | R22033  | THERMAL ENGINEERING -I  | 17       | 38       | 4       |
| 12BJ1A0388 | R22036  | MACHINE DRAWING         | 19       | 43       | 4       |
| 12BJ1A0389 | R22031  | MECHANICS OF SOLIDS     | 14       | 11       | 0       |
| 12BJ1A0389 | R22032  | KINEMATICS OF MACHINERY | 16       | 0        | 0       |
| 12BJ1A0389 | R22034  | PRODUCTION TECHNOLOGY   | 14       | 0        | 0       |
| 12BJ1A0389 | R22035  | METALL. & MATER. SCI.   | 16       | 33       | 4       |
| 12BJ1A0389 | R22036  | MACHINE DRAWING         | 20       | 0        | 0       |
| 12BJ1A0390 | R22031  | MECHANICS OF SOLIDS     | 19       | 8        | 0       |
| 12BJ1A0390 | R22032  | KINEMATICS OF MACHINERY | 15       | 6        | 0       |
| 12BJ1A0390 | R22033  | THERMAL ENGINEERING -I  | 14       | 31       | 4       |
| 12BJ1A0390 | R22034  | PRODUCTION TECHNOLOGY   | 16       | 38       | 4       |
| 12BJ1A0390 | R22035  | METALL. & MATER. SCI.   | 17       | 41       | 4       |
| 12BJ1A0390 | R22036  | MACHINE DRAWING         | 15       | 26       | 4       |
| 12BJ1A0395 | R22032  | KINEMATICS OF MACHINERY | 15       | 0        | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A0395 | R22033  | THERMAL ENGINEERING -I          | 16       | 6        | 0       |
| 12BJ1A0395 | R22034  | PRODUCTION TECHNOLOGY           | 16       | 3        | 0       |
| 12BJ1A0395 | R22035  | METALL. & MATER. SCI.           | 18       | 13       | 0       |
| 12BJ1A0401 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 37       | 4       |
| 12BJ1A0403 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 26       | 4       |
| 12BJ1A0403 | R22026  | CONTROL SYSTEMS                 | 24       | 38       | 4       |
| 12BJ1A0404 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 32       | 4       |
| 12BJ1A0405 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 2        | 0       |
| 12BJ1A0405 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 20       | 6        | 0       |
| 12BJ1A0405 | R22026  | CONTROL SYSTEMS                 | 16       | 19       | 0       |
| 12BJ1A0405 | R22041  | ANALOG COMMUNICATIONS           | 16       | 4        | 0       |
| 12BJ1A0405 | R22042  | EMWTL                           | 13       | 0        | 0       |
| 12BJ1A0405 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 3        | 0       |
| 12BJ1A0406 | R22026  | CONTROL SYSTEMS                 | 19       | 56       | 4       |
| 12BJ1A0406 | R22042  | EMWTL                           | 21       | 31       | 4       |
| 12BJ1A0412 | R22026  | CONTROL SYSTEMS                 | 18       | 35       | 4       |
| 12BJ1A0412 | R22041  | ANALOG COMMUNICATIONS           | 20       | 3        | 0       |
| 12BJ1A0412 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 20       | -1       | 0       |
| 12BJ1A0413 | R22021  | PULSE & DIGITAL CIRCUITS        | 22       | 32       | 4       |
| 12BJ1A0413 | R22042  | EMWTL                           | 21       | 26       | 4       |
| 12BJ1A0414 | R22026  | CONTROL SYSTEMS                 | 23       | 11       | 0       |
| 12BJ1A0414 | R22042  | EMWTL                           | 17       | 10       | 0       |
| 12BJ1A0414 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 23       | 27       | 4       |
| 12BJ1A0416 | R22041  | ANALOG COMMUNICATIONS           | 18       | 40       | 4       |
| 12BJ1A0418 | R22026  | CONTROL SYSTEMS                 | 20       | 26       | 4       |
| 12BJ1A0420 | R22041  | ANALOG COMMUNICATIONS           | 20       | 11       | 0       |
| 12BJ1A0423 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 12       | 0       |
| 12BJ1A0423 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 21       | 34       | 4       |
| 12BJ1A0423 | R22041  | ANALOG COMMUNICATIONS           | 15       | 10       | 0       |
| 12BJ1A0423 | R22042  | EMWTL                           | 18       | 3        | 0       |
| 12BJ1A0425 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 26       | 4       |
| 12BJ1A0425 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 14       | 0       |
| 12BJ1A0425 | R22026  | CONTROL SYSTEMS                 | 16       | 45       | 4       |
| 12BJ1A0425 | R22041  | ANALOG COMMUNICATIONS           | 19       | 16       | 0       |
| 12BJ1A0426 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 0        | 0       |
| 12BJ1A0426 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 0        | 0       |
| 12BJ1A0426 | R22026  | CONTROL SYSTEMS                 | 15       | -1       | 0       |
| 12BJ1A0426 | R22041  | ANALOG COMMUNICATIONS           | 15       | 0        | 0       |
| 12BJ1A0426 | R22042  | EMWTL                           | 15       | -1       | 0       |
| 12BJ1A0426 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 0        | 0       |
| 12BJ1A0427 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 41       | 4       |
| 12BJ1A0427 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A0428 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 3        | 0       |
| 12BJ1A0428 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 0        | 0       |
| 12BJ1A0428 | R22026  | CONTROL SYSTEMS                 | 18       | 10       | 0       |
| 12BJ1A0428 | R22041  | ANALOG COMMUNICATIONS           | 15       | -1       | 0       |
| 12BJ1A0428 | R22042  | EMWTL                           | 15       | 3        | 0       |
| 12BJ1A0428 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 18       | 0        | 0       |
| 12BJ1A0429 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 5        | 0       |
| 12BJ1A0429 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 0        | 0       |
| 12BJ1A0429 | R22041  | ANALOG COMMUNICATIONS           | 14       | 0        | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A0429 | R22042  | EMWTL                           | 15       | 2        | 0       |
| 12BJ1A0429 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 1        | 0       |
| 12BJ1A0430 | R22026  | CONTROL SYSTEMS                 | 22       | 26       | 4       |
| 12BJ1A0430 | R22041  | ANALOG COMMUNICATIONS           | 19       | 32       | 4       |
| 12BJ1A0430 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 21       | 9        | 0       |
| 12BJ1A0431 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 0        | 0       |
| 12BJ1A0431 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 0        | 0       |
| 12BJ1A0431 | R22026  | CONTROL SYSTEMS                 | 17       | 48       | 4       |
| 12BJ1A0431 | R22041  | ANALOG COMMUNICATIONS           | 18       | 0        | 0       |
| 12BJ1A0431 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A0431 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 0        | 0       |
| 12BJ1A0432 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 31       | 4       |
| 12BJ1A0432 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 13       | 0       |
| 12BJ1A0432 | R22026  | CONTROL SYSTEMS                 | 16       | 26       | 4       |
| 12BJ1A0432 | R22041  | ANALOG COMMUNICATIONS           | 19       | 4        | 0       |
| 12BJ1A0432 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A0432 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 18       | 0        | 0       |
| 12BJ1A0433 | R22021  | PULSE & DIGITAL CIRCUITS        | 14       | 0        | 0       |
| 12BJ1A0433 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 6        | 0       |
| 12BJ1A0433 | R22041  | ANALOG COMMUNICATIONS           | 15       | 7        | 0       |
| 12BJ1A0433 | R22042  | EMWTL                           | 15       | 3        | 0       |
| 12BJ1A0433 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 18       | 1        | 0       |
| 12BJ1A0435 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 26       | 4       |
| 12BJ1A0435 | R22026  | CONTROL SYSTEMS                 | 19       | 36       | 4       |
| 12BJ1A0435 | R22041  | ANALOG COMMUNICATIONS           | 19       | 10       | 0       |
| 12BJ1A0436 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 0        | 0       |
| 12BJ1A0436 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 14       | 0       |
| 12BJ1A0436 | R22026  | CONTROL SYSTEMS                 | 18       | 37       | 4       |
| 12BJ1A0436 | R22041  | ANALOG COMMUNICATIONS           | 20       | 26       | 4       |
| 12BJ1A0436 | R22042  | EMWTL                           | 15       | 10       | 0       |
| 12BJ1A0436 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 17       | 0        | 0       |
| 12BJ1A0437 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 0        | 0       |
| 12BJ1A0437 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 49       | 4       |
| 12BJ1A0437 | R22026  | CONTROL SYSTEMS                 | 15       | 38       | 4       |
| 12BJ1A0437 | R22042  | EMWTL                           | 15       | 7        | 0       |
| 12BJ1A0438 | R22026  | CONTROL SYSTEMS                 | 15       | 14       | 0       |
| 12BJ1A0438 | R22042  | EMWTL                           | 21       | 7        | 0       |
| 12BJ1A0439 | R22021  | PULSE & DIGITAL CIRCUITS        | 22       | 0        | 0       |
| 12BJ1A0439 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 20       | 26       | 4       |
| 12BJ1A0439 | R22042  | EMWTL                           | 23       | 29       | 4       |
| 12BJ1A0439 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 17       | 0        | 0       |
| 12BJ1A0440 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 26       | 4       |
| 12BJ1A0440 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 19       | 14       | 0       |
| 12BJ1A0440 | R22041  | ANALOG COMMUNICATIONS           | 22       | 10       | 0       |
| 12BJ1A0442 | R22026  | CONTROL SYSTEMS                 | 16       | 34       | 4       |
| 12BJ1A0442 | R22042  | EMWTL                           | 15       | 44       | 4       |
| 12BJ1A0443 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 26       | 4       |
| 12BJ1A0443 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 27       | 4       |
| 12BJ1A0443 | R22026  | CONTROL SYSTEMS                 | 18       | 31       | 4       |
| 12BJ1A0443 | R22041  | ANALOG COMMUNICATIONS           | 14       | 2        | 0       |
| 12BJ1A0443 | R22042  | EMWTL                           | 15       | 26       | 4       |

| Htno       | Subcode | Subname                            | Internal | External | credits |
|------------|---------|------------------------------------|----------|----------|---------|
| 12BJ1A0443 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 18       | 2        | 0       |
| 12BJ1A0447 | R22021  | PULSE & DIGITAL CIRCUITS           | 15       | 13       | 0       |
| 12BJ1A0447 | R22023  | SWITCHING THEORY & LOGIC DESIGN    | 15       | 35       | 4       |
| 12BJ1A0447 | R22026  | CONTROL SYSTEMS                    | 15       | 38       | 4       |
| 12BJ1A0447 | R22041  | ANALOG COMMUNICATIONS              | 15       | 28       | 4       |
| 12BJ1A0447 | R22042  | EMWTL                              | 15       | 5        | 0       |
| 12BJ1A0447 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 15       | 1        | 0       |
| 12BJ1A0448 | R22021  | PULSE & DIGITAL CIRCUITS           | 15       | 6        | 0       |
| 12BJ1A0448 | R22026  | CONTROL SYSTEMS                    | 15       | 27       | 4       |
| 12BJ1A0448 | R22041  | ANALOG COMMUNICATIONS              | 15       | 36       | 4       |
| 12BJ1A0448 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 15       | 4        | 0       |
| 12BJ1A0450 | R22023  | SWITCHING THEORY & LOGIC DESIGN    | 15       | 14       | 0       |
| 12BJ1A0450 | R22026  | CONTROL SYSTEMS                    | 15       | 0        | 0       |
| 12BJ1A0450 | R22041  | ANALOG COMMUNICATIONS              | 15       | 15       | 0       |
| 12BJ1A0450 | R22042  | EMWTL                              | 15       | 10       | 0       |
| 12BJ1A0450 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 15       | 7        | 0       |
| 12BJ1A0451 | R22019  | ENGLISH COMMUNICATION PRACTICE LAB | 14       | -1       | 0       |
| 12BJ1A0451 | R22021  | PULSE & DIGITAL CIRCUITS           | 15       | 15       | 0       |
| 12BJ1A0451 | R22023  | SWITCHING THEORY & LOGIC DESIGN    | 15       | 29       | 4       |
| 12BJ1A0451 | R22026  | CONTROL SYSTEMS                    | 15       | 26       | 4       |
| 12BJ1A0451 | R22041  | ANALOG COMMUNICATIONS              | 15       | 26       | 4       |
| 12BJ1A0451 | R22042  | EMWTL                              | 15       | 26       | 4       |
| 12BJ1A0451 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 15       | 3        | 0       |
| 12BJ1A0451 | R22044  | ELECTRONICS CIRCUITS & PDC LAB     | 15       | -1       | 0       |
| 12BJ1A0451 | R22045  | ANALOG COMMUNICATIONS LAB          | 14       | -1       | 0       |
| 12BJ1A0452 | R22021  | PULSE & DIGITAL CIRCUITS           | 17       | 2        | 0       |
| 12BJ1A0452 | R22026  | CONTROL SYSTEMS                    | 15       | 26       | 4       |
| 12BJ1A0452 | R22041  | ANALOG COMMUNICATIONS              | 15       | 26       | 4       |
| 12BJ1A0452 | R22042  | EMWTL                              | 15       | 39       | 4       |
| 12BJ1A0452 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 16       | 2        | 0       |
| 12BJ1A0453 | R22021  | PULSE & DIGITAL CIRCUITS           | 17       | 0        | 0       |
| 12BJ1A0453 | R22023  | SWITCHING THEORY & LOGIC DESIGN    | 17       | 30       | 4       |
| 12BJ1A0453 | R22042  | EMWTL                              | 15       | 3        | 0       |
| 12BJ1A0454 | R22026  | CONTROL SYSTEMS                    | 14       | 1        | 0       |
| 12BJ1A0454 | R22042  | EMWTL                              | 16       | 8        | 0       |
| 12BJ1A0454 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 19       | 0        | 0       |
| 12BJ1A0456 | R22021  | PULSE & DIGITAL CIRCUITS           | 16       | 6        | 0       |
| 12BJ1A0456 | R22023  | SWITCHING THEORY & LOGIC DESIGN    | 15       | 35       | 4       |
| 12BJ1A0456 | R22026  | CONTROL SYSTEMS                    | 15       | 2        | 0       |
| 12BJ1A0456 | R22041  | ANALOG COMMUNICATIONS              | 15       | 15       | 0       |
| 12BJ1A0456 | R22042  | EMWTL                              | 15       | 26       | 4       |
| 12BJ1A0456 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 15       | 3        | 0       |
| 12BJ1A0457 | R22026  | CONTROL SYSTEMS                    | 15       | 0        | 0       |
| 12BJ1A0457 | R22041  | ANALOG COMMUNICATIONS              | 17       | 1        | 0       |
| 12BJ1A0457 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 16       | 0        | 0       |
| 12BJ1A0458 | R22021  | PULSE & DIGITAL CIRCUITS           | 18       | 5        | 0       |
| 12BJ1A0458 | R22023  | SWITCHING THEORY & LOGIC DESIGN    | 16       | 5        | 0       |
| 12BJ1A0458 | R22026  | CONTROL SYSTEMS                    | 15       | 0        | 0       |
| 12BJ1A0458 | R22041  | ANALOG COMMUNICATIONS              | 16       | 17       | 0       |
| 12BJ1A0458 | R22042  | EMWTL                              | 16       | 8        | 0       |
| 12BJ1A0458 | R22043  | ELECTRONIC CIRCUIT ANALYSIS        | 16       | 3        | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A0459 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 2        | 0       |
| 12BJ1A0459 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 12       | 0       |
| 12BJ1A0460 | R22026  | CONTROL SYSTEMS                 | 14       | 10       | 0       |
| 12BJ1A0460 | R22042  | EMWTL                           | 16       | 4        | 0       |
| 12BJ1A0461 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 16       | 0       |
| 12BJ1A0463 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 10       | 0       |
| 12BJ1A0463 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 23       | 0        | 0       |
| 12BJ1A0463 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 17       | 15       | 0       |
| 12BJ1A0464 | R22042  | EMWTL                           | 21       | 41       | 4       |
| 12BJ1A0465 | R22021  | PULSE & DIGITAL CIRCUITS        | 22       | 18       | 0       |
| 12BJ1A0467 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 19       | 61       | 4       |
| 12BJ1A0468 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 26       | 4       |
| 12BJ1A0468 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 31       | 4       |
| 12BJ1A0468 | R22026  | CONTROL SYSTEMS                 | 21       | 13       | 0       |
| 12BJ1A0469 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 22       | 3        | 0       |
| 12BJ1A0469 | R22026  | CONTROL SYSTEMS                 | 23       | 4        | 0       |
| 12BJ1A0469 | R22041  | ANALOG COMMUNICATIONS           | 22       | 14       | 0       |
| 12BJ1A0469 | R22042  | EMWTL                           | 23       | 0        | 0       |
| 12BJ1A0470 | R22026  | CONTROL SYSTEMS                 | 18       | 56       | 4       |
| 12BJ1A0470 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 19       | 51       | 4       |
| 12BJ1A0472 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 50       | 4       |
| 12BJ1A0474 | R22026  | CONTROL SYSTEMS                 | 14       | 13       | 0       |
| 12BJ1A0474 | R22042  | EMWTL                           | 20       | 4        | 0       |
| 12BJ1A0474 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 14       | 10       | 0       |
| 12BJ1A0475 | R22021  | PULSE & DIGITAL CIRCUITS        | 22       | 15       | 0       |
| 12BJ1A0475 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 19       | 30       | 4       |
| 12BJ1A0476 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 18       | 0       |
| 12BJ1A0476 | R22042  | EMWTL                           | 19       | 4        | 0       |
| 12BJ1A0476 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 20       | 1        | 0       |
| 12BJ1A0479 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 16       | 0       |
| 12BJ1A0480 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | -1       | 0       |
| 12BJ1A0481 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 20       | 0       |
| 12BJ1A0481 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 3        | 0       |
| 12BJ1A0481 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A0482 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 8        | 0       |
| 12BJ1A0482 | R22026  | CONTROL SYSTEMS                 | 15       | 0        | 0       |
| 12BJ1A0482 | R22042  | EMWTL                           | 15       | 4        | 0       |
| 12BJ1A0482 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 20       | 0        | 0       |
| 12BJ1A0483 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 6        | 0       |
| 12BJ1A0483 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | -1       | 0       |
| 12BJ1A0483 | R22026  | CONTROL SYSTEMS                 | 15       | -1       | 0       |
| 12BJ1A0483 | R22041  | ANALOG COMMUNICATIONS           | 15       | 42       | 4       |
| 12BJ1A0483 | R22042  | EMWTL                           | 16       | 10       | 0       |
| 12BJ1A0483 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 4        | 0       |
| 12BJ1A0484 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 5        | 0       |
| 12BJ1A0484 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 14       | 0       |
| 12BJ1A0484 | R22026  | CONTROL SYSTEMS                 | 17       | 0        | 0       |
| 12BJ1A0484 | R22041  | ANALOG COMMUNICATIONS           | 14       | 6        | 0       |
| 12BJ1A0484 | R22042  | EMWTL                           | 15       | 12       | 0       |
| 12BJ1A0484 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 1        | 0       |
| 12BJ1A0485 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 37       | 4       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A0485 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 53       | 4       |
| 12BJ1A0485 | R22042  | EMWTL                           | 15       | 31       | 4       |
| 12BJ1A0486 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 26       | 4       |
| 12BJ1A0486 | R22026  | CONTROL SYSTEMS                 | 20       | 4        | 0       |
| 12BJ1A0486 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 1        | 0       |
| 12BJ1A0487 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 13       | 0       |
| 12BJ1A0487 | R22042  | EMWTL                           | 19       | 4        | 0       |
| 12BJ1A0489 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 2        | 0       |
| 12BJ1A0489 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 2        | 0       |
| 12BJ1A0489 | R22041  | ANALOG COMMUNICATIONS           | 16       | 5        | 0       |
| 12BJ1A0489 | R22042  | EMWTL                           | 15       | 13       | 0       |
| 12BJ1A0489 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 0        | 0       |
| 12BJ1A0490 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 2        | 0       |
| 12BJ1A0490 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | -1       | 0       |
| 12BJ1A0490 | R22026  | CONTROL SYSTEMS                 | 15       | -1       | 0       |
| 12BJ1A0490 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A0490 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 0        | 0       |
| 12BJ1A0491 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 34       | 4       |
| 12BJ1A0492 | R22021  | PULSE & DIGITAL CIRCUITS        | 14       | 8        | 0       |
| 12BJ1A0492 | R22026  | CONTROL SYSTEMS                 | 14       | 1        | 0       |
| 12BJ1A0492 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | -1       | 0       |
| 12BJ1A0494 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | -1       | 0       |
| 12BJ1A0494 | R22026  | CONTROL SYSTEMS                 | 15       | 1        | 0       |
| 12BJ1A0494 | R22041  | ANALOG COMMUNICATIONS           | 15       | 0        | 0       |
| 12BJ1A0494 | R22042  | EMWTL                           | 15       | -1       | 0       |
| 12BJ1A0494 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 17       | -1       | 0       |
| 12BJ1A0497 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 26       | 4       |
| 12BJ1A0497 | R22026  | CONTROL SYSTEMS                 | 15       | 10       | 0       |
| 12BJ1A0497 | R22042  | EMWTL                           | 19       | 34       | 4       |
| 12BJ1A0498 | R22042  | EMWTL                           | 17       | 42       | 4       |
| 12BJ1A0498 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 31       | 4       |
| 12BJ1A0499 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 2        | 0       |
| 12BJ1A0499 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 0        | 0       |
| 12BJ1A0499 | R22026  | CONTROL SYSTEMS                 | 15       | 0        | 0       |
| 12BJ1A0499 | R22041  | ANALOG COMMUNICATIONS           | 15       | 3        | 0       |
| 12BJ1A0499 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A0499 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 1        | 0       |
| 12BJ1A04A0 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 27       | 4       |
| 12BJ1A04A0 | R22026  | CONTROL SYSTEMS                 | 15       | 2        | 0       |
| 12BJ1A04A0 | R22041  | ANALOG COMMUNICATIONS           | 15       | 10       | 0       |
| 12BJ1A04A0 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A04A0 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 14       | 1        | 0       |
| 12BJ1A04A1 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 58       | 4       |
| 12BJ1A04A2 | R22021  | PULSE & DIGITAL CIRCUITS        | 16       | 1        | 0       |
| 12BJ1A04A2 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 1        | 0       |
| 12BJ1A04A2 | R22026  | CONTROL SYSTEMS                 | 15       | 4        | 0       |
| 12BJ1A04A2 | R22042  | EMWTL                           | 17       | 0        | 0       |
| 12BJ1A04A2 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 1        | 0       |
| 12BJ1A04A3 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 0        | 0       |
| 12BJ1A04A3 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | -1       | 0       |
| 12BJ1A04A3 | R22026  | CONTROL SYSTEMS                 | 15       | 1        | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A04A3 | R22041  | ANALOG COMMUNICATIONS           | 15       | 26       | 4       |
| 12BJ1A04A3 | R22042  | EMWTL                           | 15       | 13       | 0       |
| 12BJ1A04A3 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 0        | 0       |
| 12BJ1A04A4 | R22021  | PULSE & DIGITAL CIRCUITS        | 16       | 0        | 0       |
| 12BJ1A04A4 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 18       | 0        | 0       |
| 12BJ1A04A4 | R22026  | CONTROL SYSTEMS                 | 15       | 0        | 0       |
| 12BJ1A04A4 | R22041  | ANALOG COMMUNICATIONS           | 19       | 26       | 4       |
| 12BJ1A04A4 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A04A4 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 0        | 0       |
| 12BJ1A04A5 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 0        | 0       |
| 12BJ1A04A5 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 1        | 0       |
| 12BJ1A04A5 | R22026  | CONTROL SYSTEMS                 | 14       | 0        | 0       |
| 12BJ1A04A5 | R22041  | ANALOG COMMUNICATIONS           | 14       | 34       | 4       |
| 12BJ1A04A5 | R22042  | EMWTL                           | 17       | 0        | 0       |
| 12BJ1A04A7 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 0        | 0       |
| 12BJ1A04A7 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 16       | 9        | 0       |
| 12BJ1A04A7 | R22026  | CONTROL SYSTEMS                 | 18       | 5        | 0       |
| 12BJ1A04A7 | R22041  | ANALOG COMMUNICATIONS           | 15       | 20       | 0       |
| 12BJ1A04A7 | R22042  | EMWTL                           | 16       | 3        | 0       |
| 12BJ1A04A7 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 18       | 2        | 0       |
| 12BJ1A04A9 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 26       | 4       |
| 12BJ1A04A9 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 28       | 4       |
| 12BJ1A04A9 | R22026  | CONTROL SYSTEMS                 | 23       | 26       | 4       |
| 12BJ1A04A9 | R22042  | EMWTL                           | 16       | 2        | 0       |
| 12BJ1A04B1 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 0        | 0       |
| 12BJ1A04B1 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 0        | 0       |
| 12BJ1A04B1 | R22026  | CONTROL SYSTEMS                 | 17       | 0        | 0       |
| 12BJ1A04B1 | R22041  | ANALOG COMMUNICATIONS           | 15       | 0        | 0       |
| 12BJ1A04B1 | R22042  | EMWTL                           | 14       | 0        | 0       |
| 12BJ1A04B1 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 1        | 0       |
| 12BJ1A04B2 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 0        | 0       |
| 12BJ1A04B2 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 0        | 0       |
| 12BJ1A04B2 | R22026  | CONTROL SYSTEMS                 | 20       | 0        | 0       |
| 12BJ1A04B2 | R22041  | ANALOG COMMUNICATIONS           | 15       | 17       | 0       |
| 12BJ1A04B2 | R22042  | EMWTL                           | 15       | 6        | 0       |
| 12BJ1A04B2 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 0        | 0       |
| 12BJ1A04B3 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 0        | 0       |
| 12BJ1A04B3 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 1        | 0       |
| 12BJ1A04B3 | R22026  | CONTROL SYSTEMS                 | 17       | 2        | 0       |
| 12BJ1A04B3 | R22041  | ANALOG COMMUNICATIONS           | 14       | 33       | 4       |
| 12BJ1A04B3 | R22042  | EMWTL                           | 16       | 0        | 0       |
| 12BJ1A04B4 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 12       | 0       |
| 12BJ1A04B4 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 1        | 0       |
| 12BJ1A04B4 | R22026  | CONTROL SYSTEMS                 | 14       | 1        | 0       |
| 12BJ1A04B4 | R22041  | ANALOG COMMUNICATIONS           | 16       | 9        | 0       |
| 12BJ1A04B4 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A04B4 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 4        | 0       |
| 12BJ1A04B8 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 10       | 0       |
| 12BJ1A04B8 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 0        | 0       |
| 12BJ1A04B8 | R22026  | CONTROL SYSTEMS                 | 18       | 0        | 0       |
| 12BJ1A04B8 | R22041  | ANALOG COMMUNICATIONS           | 15       | 10       | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 12BJ1A04B8 | R22042  | EMWTL                           | 8        | 19       | 0       |
| 12BJ1A04B9 | R22026  | CONTROL SYSTEMS                 | 20       | 15       | 0       |
| 12BJ1A04B9 | R22042  | EMWTL                           | 16       | 0        | 0       |
| 12BJ1A04C2 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 26       | 4       |
| 12BJ1A04C2 | R22026  | CONTROL SYSTEMS                 | 17       | 54       | 4       |
| 12BJ1A04C2 | R22042  | EMWTL                           | 16       | 5        | 0       |
| 12BJ1A04C5 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 7        | 0       |
| 12BJ1A04C5 | R22026  | CONTROL SYSTEMS                 | 15       | 9        | 0       |
| 12BJ1A04C7 | R22021  | PULSE & DIGITAL CIRCUITS        | 23       | 37       | 4       |
| 12BJ1A04C8 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 21       | 2        | 0       |
| 12BJ1A04C8 | R22026  | CONTROL SYSTEMS                 | 18       | 3        | 0       |
| 12BJ1A04C8 | R22042  | EMWTL                           | 19       | 4        | 0       |
| 12BJ1A04C8 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 16       | 0        | 0       |
| 12BJ1A04C9 | R22021  | PULSE & DIGITAL CIRCUITS        | 22       | 26       | 4       |
| 12BJ1A04C9 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 21       | 38       | 4       |
| 12BJ1A04C9 | R22041  | ANALOG COMMUNICATIONS           | 20       | 15       | 0       |
| 12BJ1A04C9 | R22042  | EMWTL                           | 16       | 14       | 0       |
| 12BJ1A04D1 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 11       | 0       |
| 12BJ1A04D1 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 20       | 45       | 4       |
| 12BJ1A04D1 | R22026  | CONTROL SYSTEMS                 | 18       | 2        | 0       |
| 12BJ1A04D2 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 0        | 0       |
| 12BJ1A04D2 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 14       | 0        | 0       |
| 12BJ1A04D2 | R22026  | CONTROL SYSTEMS                 | 15       | 1        | 0       |
| 12BJ1A04D2 | R22041  | ANALOG COMMUNICATIONS           | 15       | 34       | 4       |
| 12BJ1A04D2 | R22042  | EMWTL                           | 15       | 4        | 0       |
| 12BJ1A04D2 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 1        | 0       |
| 12BJ1A04D4 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 44       | 4       |
| 12BJ1A04D4 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 0        | 4        | 0       |
| 12BJ1A04D4 | R22026  | CONTROL SYSTEMS                 | 0        | 0        | 0       |
| 12BJ1A04D4 | R22041  | ANALOG COMMUNICATIONS           | 15       | 4        | 0       |
| 12BJ1A04D4 | R22042  | EMWTL                           | 15       | 26       | 4       |
| 12BJ1A04D4 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 1        | 0       |
| 12BJ1A04D5 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 4        | 0       |
| 12BJ1A04D5 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 6        | 0       |
| 12BJ1A04D5 | R22026  | CONTROL SYSTEMS                 | 18       | 3        | 0       |
| 12BJ1A04D5 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A04D6 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 2        | 0       |
| 12BJ1A04D6 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 0        | 0       |
| 12BJ1A04D6 | R22026  | CONTROL SYSTEMS                 | 15       | 0        | 0       |
| 12BJ1A04D6 | R22041  | ANALOG COMMUNICATIONS           | 15       | 11       | 0       |
| 12BJ1A04D6 | R22042  | EMWTL                           | 15       | 0        | 0       |
| 12BJ1A04D6 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 2        | 0       |
| 12BJ1A04D7 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 12       | 0       |
| 12BJ1A04D7 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 30       | 4       |
| 12BJ1A04D7 | R22026  | CONTROL SYSTEMS                 | 18       | 30       | 4       |
| 12BJ1A04D7 | R22041  | ANALOG COMMUNICATIONS           | 20       | 26       | 4       |
| 12BJ1A04D7 | R22042  | EMWTL                           | 15       | 6        | 0       |
| 12BJ1A04D7 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 5        | 0       |
| 12BJ1A04D8 | R22021  | PULSE & DIGITAL CIRCUITS        | 21       | 31       | 4       |
| 12BJ1A04D8 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 19       | 44       | 4       |
| 12BJ1A04D9 | R22021  | PULSE & DIGITAL CIRCUITS        | 16       | 5        | 0       |



| Htno       | Subcode | Subname                                  | Internal | External | credits |
|------------|---------|--|----------|----------|---------|
| 12BJ1A04D9 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 14       | 1        | 0       |
| 12BJ1A04D9 | R22042  | EMWTL                                    | 15       | 12       | 0       |
| 12BJ1A04E0 | R22021  | PULSE & DIGITAL CIRCUITS                 | 18       | 6        | 0       |
| 12BJ1A04E0 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 17       | -1       | 0       |
| 12BJ1A04E0 | R22026  | CONTROL SYSTEMS                          | 15       | -1       | 0       |
| 12BJ1A04E1 | R22021  | PULSE & DIGITAL CIRCUITS                 | 15       | -1       | 0       |
| 12BJ1A04E1 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 16       | -1       | 0       |
| 12BJ1A04E1 | R22026  | CONTROL SYSTEMS                          | 15       | -1       | 0       |
| 12BJ1A04E1 | R22041  | ANALOG COMMUNICATIONS                    | 14       | -1       | 0       |
| 12BJ1A04E1 | R22042  | EMWTL                                    | 15       | -1       | 0       |
| 12BJ1A04E1 | R22043  | ELECTRONIC CIRCUIT ANALYSIS              | 14       | -1       | 0       |
| 12BJ1A04E3 | R22021  | PULSE & DIGITAL CIRCUITS                 | 15       | 0        | 0       |
| 12BJ1A04E3 | R22026  | CONTROL SYSTEMS                          | 14       | 0        | 0       |
| 12BJ1A04E3 | R22042  | EMWTL                                    | 15       | 0        | 0       |
| 12BJ1A04E5 | R22021  | PULSE & DIGITAL CIRCUITS                 | 19       | 12       | 0       |
| 12BJ1A04E5 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 17       | 62       | 4       |
| 12BJ1A04E5 | R22026  | CONTROL SYSTEMS                          | 17       | 42       | 4       |
| 12BJ1A04E5 | R22041  | ANALOG COMMUNICATIONS                    | 16       | 26       | 4       |
| 12BJ1A04E5 | R22042  | EMWTL                                    | 19       | 5        | 0       |
| 12BJ1A04E5 | R22043  | ELECTRONIC CIRCUIT ANALYSIS              | 15       | 8        | 0       |
| 12BJ1A04E6 | R22021  | PULSE & DIGITAL CIRCUITS                 | 18       | 13       | 0       |
| 12BJ1A04E6 | R22026  | CONTROL SYSTEMS                          | 16       | 4        | 0       |
| 12BJ1A04E6 | R22041  | ANALOG COMMUNICATIONS                    | 15       | 4        | 0       |
| 12BJ1A04E6 | R22043  | ELECTRONIC CIRCUIT ANALYSIS              | 15       | 0        | 0       |
| 12BJ1A0501 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 48       | 4       |
| 12BJ1A0502 | R22054  | COMPUTER ORGANIZATION                    | 18       | 32       | 4       |
| 12BJ1A0505 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 19       | 34       | 4       |
| 12BJ1A0506 | R22054  | COMPUTER ORGANIZATION                    | 19       | 32       | 4       |
| 12BJ1A0508 | R22054  | COMPUTER ORGANIZATION                    | 14       | 32       | 4       |
| 12BJ1A0508 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 14       | 10       | 0       |
| 12BJ1A0508 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 16       | 0       |
| 12BJ1A0509 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 18       | 40       | 4       |
| 12BJ1A0510 | R22051  | SOFTWARE ENGINEERING                     | 19       | 7        | 0       |
| 12BJ1A0510 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 16       | 13       | 0       |
| 12BJ1A0510 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 17       | 0       |
| 12BJ1A0510 | R22054  | COMPUTER ORGANIZATION                    | 16       | 19       | 0       |
| 12BJ1A0511 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 21       | 37       | 4       |
| 12BJ1A0512 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 20       | 31       | 4       |
| 12BJ1A0512 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 17       | 7        | 0       |
| 12BJ1A0515 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 37       | 4       |
| 12BJ1A0517 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 20       | 11       | 0       |
| 12BJ1A0517 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 17       | 33       | 4       |
| 12BJ1A0521 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 49       | 4       |
| 12BJ1A0525 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 19       | 44       | 4       |
| 12BJ1A0527 | R22054  | COMPUTER ORGANIZATION                    | 15       | 37       | 4       |
| 12BJ1A0528 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 15       | 34       | 4       |
| 12BJ1A0528 | R22054  | COMPUTER ORGANIZATION                    | 14       | 5        | 0       |
| 12BJ1A0528 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 15       | 34       | 4       |
| 12BJ1A0530 | R22051  | SOFTWARE ENGINEERING                     | 15       | 14       | 0       |
| 12BJ1A0530 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 14       | 10       | 0       |
| 12BJ1A0530 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 18       | 31       | 4       |

| Htno       | Subcode | Subname                                  | Internal | External | credits |
|------------|---------|--|----------|----------|---------|
| 12BJ1A0530 | R22054  | COMPUTER ORGANIZATION                    | 19       | 16       | 0       |
| 12BJ1A0530 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 15       | 26       | 4       |
| 12BJ1A0530 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 14       | 13       | 0       |
| 12BJ1A0530 | R22057  | OBJECT ORIENTED PROGRAMMINGS LAB         | 20       | 49       | 2       |
| 12BJ1A0530 | R22058  | DATA BASE MANAGEMENT SYSTEMS LAB         | 20       | 35       | 2       |
| 12BJ1A0531 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 0        | 0       |
| 12BJ1A0531 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 14       | 33       | 4       |
| 12BJ1A0531 | R22054  | COMPUTER ORGANIZATION                    | 16       | 3        | 0       |
| 12BJ1A0531 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 15       | 26       | 4       |
| 12BJ1A0531 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 17       | 3        | 0       |
| 12BJ1A0532 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 16       | 39       | 4       |
| 12BJ1A0532 | R22054  | COMPUTER ORGANIZATION                    | 14       | 36       | 4       |
| 12BJ1A0532 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 4        | 0       |
| 12BJ1A0533 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 23       | 54       | 4       |
| 12BJ1A0534 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 16       | 5        | 0       |
| 12BJ1A0534 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 20       | 40       | 4       |
| 12BJ1A0534 | R22054  | COMPUTER ORGANIZATION                    | 19       | 9        | 0       |
| 12BJ1A0535 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 18       | 0        | 0       |
| 12BJ1A0535 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 16       | 14       | 0       |
| 12BJ1A0535 | R22054  | COMPUTER ORGANIZATION                    | 17       | 1        | 0       |
| 12BJ1A0536 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 19       | 34       | 4       |
| 12BJ1A0536 | R22054  | COMPUTER ORGANIZATION                    | 17       | 26       | 4       |
| 12BJ1A0536 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 33       | 4       |
| 12BJ1A0537 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 19       | 14       | 0       |
| 12BJ1A0537 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 17       | 0       |
| 12BJ1A0538 | R22051  | SOFTWARE ENGINEERING                     | 19       | 8        | 0       |
| 12BJ1A0538 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 19       | 46       | 4       |
| 12BJ1A0538 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 32       | 4       |
| 12BJ1A0538 | R22054  | COMPUTER ORGANIZATION                    | 16       | 27       | 4       |
| 12BJ1A0538 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 17       | 6        | 0       |
| 12BJ1A0538 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 11       | 0       |
| 12BJ1A0541 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 35       | 4       |
| 12BJ1A0541 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 15       | 26       | 4       |
| 12BJ1A0542 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 18       | 36       | 4       |
| 12BJ1A0542 | R22054  | COMPUTER ORGANIZATION                    | 19       | 33       | 4       |
| 12BJ1A0543 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 0        | 0       |
| 12BJ1A0543 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 14       | 30       | 4       |
| 12BJ1A0543 | R22054  | COMPUTER ORGANIZATION                    | 15       | 2        | 0       |
| 12BJ1A0545 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 17       | 9        | 0       |
| 12BJ1A0545 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 14       | 14       | 0       |
| 12BJ1A0545 | R22054  | COMPUTER ORGANIZATION                    | 17       | 1        | 0       |
| 12BJ1A0545 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 15       | 16       | 0       |
| 12BJ1A0545 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 10       | 0       |
| 12BJ1A0546 | R22051  | SOFTWARE ENGINEERING                     | 15       | 20       | 0       |
| 12BJ1A0546 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 26       | 4       |
| 12BJ1A0546 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 18       | 32       | 4       |
| 12BJ1A0546 | R22054  | COMPUTER ORGANIZATION                    | 15       | 9        | 0       |
| 12BJ1A0546 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 16       | 33       | 4       |
| 12BJ1A0546 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 10       | 0       |
| 12BJ1A0547 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 33       | 4       |
| 12BJ1A0547 | R22054  | COMPUTER ORGANIZATION                    | 14       | 19       | 0       |

| Htno       | Subcode | Subname                                  | Internal | External | credits |
|------------|---------|--|----------|----------|---------|
| 12BJ1A0547 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 26       | 4       |
| 12BJ1A0550 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 23       | 37       | 4       |
| 12BJ1A0550 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 23       | 34       | 4       |
| 12BJ1A0550 | R22054  | COMPUTER ORGANIZATION                    | 16       | 36       | 4       |
| 12BJ1A0551 | R22051  | SOFTWARE ENGINEERING                     | 17       | 64       | 4       |
| 12BJ1A0551 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 18       | 12       | 0       |
| 12BJ1A0551 | R22054  | COMPUTER ORGANIZATION                    | 17       | 34       | 4       |
| 12BJ1A0553 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 16       | 0        | 0       |
| 12BJ1A0553 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 35       | 4       |
| 12BJ1A0553 | R22054  | COMPUTER ORGANIZATION                    | 16       | 26       | 4       |
| 12BJ1A0553 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 16       | 29       | 4       |
| 12BJ1A0553 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 14       | 0       |
| 12BJ1A0554 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 19       | 16       | 0       |
| 12BJ1A0554 | R22054  | COMPUTER ORGANIZATION                    | 16       | 1        | 0       |
| 12BJ1A0554 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 14       | 11       | 0       |
| 12BJ1A0555 | R22051  | SOFTWARE ENGINEERING                     | 18       | 2        | 0       |
| 12BJ1A0555 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 3        | 0       |
| 12BJ1A0555 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 37       | 4       |
| 12BJ1A0555 | R22054  | COMPUTER ORGANIZATION                    | 16       | 7        | 0       |
| 12BJ1A0555 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 13       | 0        | 0       |
| 12BJ1A0555 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 13       | 0       |
| 12BJ1A0556 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 19       | 44       | 4       |
| 12BJ1A0556 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 12       | 3        | 0       |
| 12BJ1A0556 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 15       | 31       | 4       |
| 12BJ1A0557 | R22054  | COMPUTER ORGANIZATION                    | 23       | 31       | 4       |
| 12BJ1A0560 | R22051  | SOFTWARE ENGINEERING                     | 16       | 12       | 0       |
| 12BJ1A0560 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 11       | 0       |
| 12BJ1A0560 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 16       | 26       | 4       |
| 12BJ1A0560 | R22054  | COMPUTER ORGANIZATION                    | 18       | 26       | 4       |
| 12BJ1A0560 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 15       | 9        | 0       |
| 12BJ1A0560 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 17       | 26       | 4       |
| 12BJ1A0561 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 20       | 17       | 0       |
| 12BJ1A0562 | R22054  | COMPUTER ORGANIZATION                    | 22       | 32       | 4       |
| 12BJ1A0565 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 17       | 12       | 0       |
| 12BJ1A0565 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 13       | 38       | 4       |
| 12BJ1A0566 | R22054  | COMPUTER ORGANIZATION                    | 15       | 46       | 4       |
| 12BJ1A0570 | R22054  | COMPUTER ORGANIZATION                    | 16       | 17       | 0       |
| 12BJ1A0570 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 18       | 9        | 0       |
| 12BJ1A0573 | R22051  | SOFTWARE ENGINEERING                     | 21       | 29       | 4       |
| 12BJ1A0573 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 35       | 4       |
| 12BJ1A0573 | R22054  | COMPUTER ORGANIZATION                    | 16       | 32       | 4       |
| 12BJ1A0575 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 24       | 43       | 4       |
| 12BJ1A0578 | R22054  | COMPUTER ORGANIZATION                    | 20       | 36       | 4       |
| 12BJ1A0579 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 17       | 18       | 0       |
| 12BJ1A0579 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 17       | 15       | 0       |
| 12BJ1A0579 | R22054  | COMPUTER ORGANIZATION                    | 15       | 15       | 0       |
| 12BJ1A0580 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 18       | 32       | 4       |
| 12BJ1A0580 | R22054  | COMPUTER ORGANIZATION                    | 18       | 31       | 4       |
| 12BJ1A0582 | R22054  | COMPUTER ORGANIZATION                    | 16       | 39       | 4       |
| 12BJ1A0582 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 20       | 14       | 0       |
| 12BJ1A0583 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 16       | 38       | 4       |

| Htno       | Subcode | Subname                                  | Internal | External | credits |
|------------|---------|--|----------|----------|---------|
| 12BJ1A0583 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 12       | 15       | 0       |
| 12BJ1A0584 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 18       | 9        | 0       |
| 12BJ1A0584 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 19       | 28       | 4       |
| 12BJ1A0584 | R22054  | COMPUTER ORGANIZATION                    | 18       | 16       | 0       |
| 12BJ1A0585 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 46       | 4       |
| 12BJ1A0587 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 24       | 35       | 4       |
| 12BJ1A0588 | R22019  | ENGLISH COMMUNICATION PRACTICE LAB       | 24       | 46       | 1       |
| 12BJ1A0588 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 18       | 26       | 4       |
| 12BJ1A0588 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 14       | 30       | 4       |
| 12BJ1A0588 | R22054  | COMPUTER ORGANIZATION                    | 19       | 28       | 4       |
| 12BJ1A0588 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 16       | 29       | 4       |
| 12BJ1A0588 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 16       | 0       |
| 12BJ1A0589 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 24       | 0        | 0       |
| 12BJ1A0589 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 16       | 13       | 0       |
| 12BJ1A0591 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 20       | 15       | 0       |
| 12BJ1A0591 | R22054  | COMPUTER ORGANIZATION                    | 16       | 11       | 0       |
| 12BJ1A0591 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 24       | 4        | 0       |
| 12BJ1A0592 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 21       | 34       | 4       |
| 12BJ1A0592 | R22054  | COMPUTER ORGANIZATION                    | 19       | 46       | 4       |
| 12BJ1A0594 | R22054  | COMPUTER ORGANIZATION                    | 15       | 6        | 0       |
| 12BJ1A0594 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 18       | 5        | 0       |
| 12BJ1A0594 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 0        | 0       |
| 12BJ1A0596 | R22054  | COMPUTER ORGANIZATION                    | 19       | 8        | 0       |
| 12BJ1A0596 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 19       | 7        | 0       |
| 12BJ1A0596 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 17       | 10       | 0       |
| 12BJ1A0597 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 16       | 26       | 4       |
| 12BJ1A0597 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 24       | 33       | 4       |
| 12BJ1A0597 | R22054  | COMPUTER ORGANIZATION                    | 18       | 11       | 0       |
| 12BJ1A0597 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 20       | 14       | 0       |
| 12BJ1A0598 | R22051  | SOFTWARE ENGINEERING                     | 17       | 26       | 4       |
| 12BJ1A0598 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 17       | 26       | 4       |
| 12BJ1A0598 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 4        | 0       |
| 12BJ1A0598 | R22054  | COMPUTER ORGANIZATION                    | 17       | 6        | 0       |
| 12BJ1A0598 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 16       | 9        | 0       |
| 12BJ1A0598 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 26       | 4       |
| 12BJ1A0599 | R22051  | SOFTWARE ENGINEERING                     | 16       | 10       | 0       |
| 12BJ1A0599 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 19       | 26       | 4       |
| 12BJ1A0599 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 20       | 28       | 4       |
| 12BJ1A0599 | R22054  | COMPUTER ORGANIZATION                    | 16       | 9        | 0       |
| 12BJ1A0599 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 19       | 11       | 0       |
| 12BJ1A05A3 | R22054  | COMPUTER ORGANIZATION                    | 14       | 8        | 0       |
| 12BJ1A05A4 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 14       | 12       | 0       |
| 12BJ1A05A4 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 11       | 0       |
| 12BJ1A05A4 | R22054  | COMPUTER ORGANIZATION                    | 16       | 16       | 0       |
| 12BJ1A05A4 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 17       | 14       | 0       |
| 12BJ1A05A5 | R22051  | SOFTWARE ENGINEERING                     | 20       | 12       | 0       |
| 12BJ1A05A5 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 0        | 0       |
| 12BJ1A05A5 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 32       | 4       |
| 12BJ1A05A5 | R22054  | COMPUTER ORGANIZATION                    | 14       | 14       | 0       |
| 12BJ1A05A5 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 17       | 8        | 0       |
| 12BJ1A05A5 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 15       | 0       |

| Htno       | Subcode | Subname                                  | Internal | External | credits |
|------------|---------|--|----------|----------|---------|
| 12BJ1A05A8 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 16       | 38       | 4       |
| 12BJ1A05A8 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 18       | 28       | 4       |
| 12BJ1A05A8 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 17       | 10       | 0       |
| 12BJ1A05A9 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 18       | 6        | 0       |
| 12BJ1A05A9 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 9        | 0       |
| 12BJ1A05A9 | R22054  | COMPUTER ORGANIZATION                    | 17       | 7        | 0       |
| 12BJ1A05A9 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 17       | 0        | 0       |
| 12BJ1A05A9 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 6        | 0       |
| 12BJ1A05B0 | R22051  | SOFTWARE ENGINEERING                     | 24       | 26       | 4       |
| 12BJ1A05B0 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 20       | 8        | 0       |
| 12BJ1A05B0 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 14       | 35       | 4       |
| 12BJ1A05B0 | R22054  | COMPUTER ORGANIZATION                    | 15       | 26       | 4       |
| 12BJ1A05B0 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 17       | 0        | 0       |
| 12BJ1A05B0 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 14       | -1       | 0       |
| 12BJ1A05B1 | R22051  | SOFTWARE ENGINEERING                     | 15       | 48       | 4       |
| 12BJ1A05B1 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 20       | 4        | 0       |
| 12BJ1A05B1 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 20       | 26       | 4       |
| 12BJ1A05B1 | R22054  | COMPUTER ORGANIZATION                    | 15       | 13       | 0       |
| 12BJ1A05B1 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 20       | 5        | 0       |
| 12BJ1A05B1 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 17       | 30       | 4       |
| 12BJ1A05B2 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 14       | 36       | 4       |
| 12BJ1A05B2 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 20       | 8        | 0       |
| 12BJ1A05B2 | R22055  | FORMAL LANGUAGES AND AUTOMATA THEORY     | 21       | 35       | 4       |
| 12BJ5A0205 | R22026  | CONTROL SYSTEMS                          | 16       | 18       | 0       |
| 12BJ5A0206 | R22026  | CONTROL SYSTEMS                          | 15       | 28       | 4       |
| 12BJ5A0206 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 18       | 9        | 0       |
| 12BJ5A0208 | R22026  | CONTROL SYSTEMS                          | 15       | 12       | 0       |
| 12BJ5A0210 | R22021  | PULSE & DIGITAL CIRCUITS                 | 21       | 18       | 0       |
| 12BJ5A0212 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 16       | 0        | 0       |
| 12BJ5A0212 | R22026  | CONTROL SYSTEMS                          | 13       | 4        | 0       |
| 12BJ5A0215 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 17       | 20       | 0       |
| 12BJ5A0215 | R22026  | CONTROL SYSTEMS                          | 15       | 18       | 0       |
| 12BJ5A0217 | R22026  | CONTROL SYSTEMS                          | 16       | 3        | 0       |
| 12BJ5A0218 | R22021  | PULSE & DIGITAL CIRCUITS                 | 7        | -1       | 0       |
| 12BJ5A0218 | R22022  | POWER SYSTEMS-I                          | 16       | -1       | 0       |
| 12BJ5A0218 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 17       | -1       | 0       |
| 12BJ5A0218 | R22026  | CONTROL SYSTEMS                          | 14       | -1       | 0       |
| 12BJ5A0218 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 17       | 0        | 0       |
| 12BJ5A0220 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 18       | 4        | 0       |
| 12BJ5A0220 | R22026  | CONTROL SYSTEMS                          | 14       | 2        | 0       |
| 12BJ5A0224 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 19       | 0        | 0       |
| 12BJ5A0227 | R22026  | CONTROL SYSTEMS                          | 15       | 19       | 0       |
| 12BJ5A0227 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II           | 17       | 5        | 0       |
| 12BJ5A0303 | R22032  | KINEMATICS OF MACHINERY                  | 2        | 0        | 0       |
| 12BJ5A0303 | R22033  | THERMAL ENGINEERING -I                   | 0        | 8        | 0       |
| 12BJ5A0303 | R22034  | PRODUCTION TECHNOLOGY                    | 0        | 26       | 0       |
| 12BJ5A0303 | R22035  | METALL. & MATER. SCI.                    | 0        | 26       | 0       |
| 12BJ5A0403 | R22026  | CONTROL SYSTEMS                          | 16       | 0        | 0       |
| 12BJ5A0404 | R22026  | CONTROL SYSTEMS                          | 3        | 0        | 0       |
| 13BJ5A0202 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 17       | 21       | 0       |
| 13BJ5A0202 | R22026  | CONTROL SYSTEMS                          | 15       | 1        | 0       |

| Htno       | Subcode | Subname                         | Internal | External | credits |
|------------|---------|---------------------------------|----------|----------|---------|
| 13BJ5A0205 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 13       | 0       |
| 13BJ5A0205 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 5        | 0       |
| 13BJ5A0205 | R22024  | ELECTRICAL MACHINES-II          | 18       | 3        | 0       |
| 13BJ5A0205 | R22026  | CONTROL SYSTEMS                 | 19       | 5        | 0       |
| 13BJ5A0206 | R22021  | PULSE & DIGITAL CIRCUITS        | 18       | 0        | 0       |
| 13BJ5A0206 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 1        | 0       |
| 13BJ5A0206 | R22026  | CONTROL SYSTEMS                 | 17       | 0        | 0       |
| 13BJ5A0206 | R22029  | ELECTRICAL CIRCUIT ANALYSIS-II  | 19       | 3        | 0       |
| 13BJ5A0207 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 16       | 0       |
| 13BJ5A0207 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 12       | 34       | 4       |
| 13BJ5A0207 | R22026  | CONTROL SYSTEMS                 | 17       | 7        | 0       |
| 13BJ5A0208 | R22021  | PULSE & DIGITAL CIRCUITS        | 15       | 1        | 0       |
| 13BJ5A0209 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 17       | 20       | 0       |
| 13BJ5A0301 | R22032  | KINEMATICS OF MACHINERY         | 15       | 1        | 0       |
| 13BJ5A0301 | R22033  | THERMAL ENGINEERING -I          | 15       | -1       | 0       |
| 13BJ5A0301 | R22035  | METALL. & MATER. SCI.           | 15       | -1       | 0       |
| 13BJ5A0302 | R22033  | THERMAL ENGINEERING -I          | 17       | 36       | 4       |
| 13BJ5A0302 | R22035  | METALL. & MATER. SCI.           | 18       | 29       | 4       |
| 13BJ5A0303 | R22033  | THERMAL ENGINEERING -I          | 16       | 36       | 4       |
| 13BJ5A0304 | R22031  | MECHANICS OF SOLIDS             | 16       | 3        | 0       |
| 13BJ5A0304 | R22032  | KINEMATICS OF MACHINERY         | 17       | 1        | 0       |
| 13BJ5A0304 | R22033  | THERMAL ENGINEERING -I          | 16       | 0        | 0       |
| 13BJ5A0304 | R22035  | METALL. & MATER. SCI.           | 16       | 27       | 4       |
| 13BJ5A0305 | R22032  | KINEMATICS OF MACHINERY         | 17       | 9        | 0       |
| 13BJ5A0305 | R22035  | METALL. & MATER. SCI.           | 16       | 15       | 0       |
| 13BJ5A0305 | R22036  | MACHINE DRAWING                 | 19       | 0        | 0       |
| 13BJ5A0306 | R22033  | THERMAL ENGINEERING -I          | 14       | 56       | 4       |
| 13BJ5A0306 | R22034  | PRODUCTION TECHNOLOGY           | 12       | 13       | 0       |
| 13BJ5A0306 | R22035  | METALL. & MATER. SCI.           | 13       | 27       | 4       |
| 13BJ5A0308 | R22032  | KINEMATICS OF MACHINERY         | 17       | -1       | 0       |
| 13BJ5A0403 | R22042  | EMWTL                           | 17       | 6        | 0       |
| 13BJ5A0404 | R22021  | PULSE & DIGITAL CIRCUITS        | 20       | 26       | 4       |
| 13BJ5A0404 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 26       | 4       |
| 13BJ5A0404 | R22026  | CONTROL SYSTEMS                 | 15       | 41       | 4       |
| 13BJ5A0404 | R22042  | EMWTL                           | 16       | 26       | 4       |
| 13BJ5A0405 | R22021  | PULSE & DIGITAL CIRCUITS        | 17       | 26       | 4       |
| 13BJ5A0405 | R22041  | ANALOG COMMUNICATIONS           | 15       | 26       | 4       |
| 13BJ5A0405 | R22042  | EMWTL                           | 17       | 4        | 0       |
| 13BJ5A0405 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 17       | 30       | 4       |
| 13BJ5A0406 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 15       | 39       | 4       |
| 13BJ5A0406 | R22026  | CONTROL SYSTEMS                 | 20       | 4        | 0       |
| 13BJ5A0406 | R22042  | EMWTL                           | 16       | 28       | 4       |
| 13BJ5A0407 | R22042  | EMWTL                           | 17       | 3        | 0       |
| 13BJ5A0407 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 15       | 6        | 0       |
| 13BJ5A0408 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 13       | 0       |
| 13BJ5A0408 | R22023  | SWITCHING THEORY & LOGIC DESIGN | 14       | 20       | 0       |
| 13BJ5A0408 | R22026  | CONTROL SYSTEMS                 | 15       | 6        | 0       |
| 13BJ5A0408 | R22042  | EMWTL                           | 15       | 2        | 0       |
| 13BJ5A0408 | R22043  | ELECTRONIC CIRCUIT ANALYSIS     | 19       | 8        | 0       |
| 13BJ5A0409 | R22021  | PULSE & DIGITAL CIRCUITS        | 19       | 15       | 0       |
| 13BJ5A0409 | R22026  | CONTROL SYSTEMS                 | 15       | 0        | 0       |

| Htno       | Subcode | Subname                                  | Internal | External | credits |
|------------|---------|--|----------|----------|---------|
| 13BJ5A0409 | R22041  | ANALOG COMMUNICATIONS                    | 20       | 7        | 0       |
| 13BJ5A0410 | R22021  | PULSE & DIGITAL CIRCUITS                 | 16       | 3        | 0       |
| 13BJ5A0410 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 15       | 6        | 0       |
| 13BJ5A0410 | R22026  | CONTROL SYSTEMS                          | 17       | 3        | 0       |
| 13BJ5A0410 | R22041  | ANALOG COMMUNICATIONS                    | 17       | 13       | 0       |
| 13BJ5A0410 | R22042  | EMWTL                                    | 19       | 0        | 0       |
| 13BJ5A0411 | R22021  | PULSE & DIGITAL CIRCUITS                 | 18       | 19       | 0       |
| 13BJ5A0411 | R22023  | SWITCHING THEORY & LOGIC DESIGN          | 15       | 7        | 0       |
| 13BJ5A0411 | R22026  | CONTROL SYSTEMS                          | 16       | 5        | 0       |
| 13BJ5A0411 | R22042  | EMWTL                                    | 15       | 4        | 0       |
| 13BJ5A0411 | R22043  | ELECTRONIC CIRCUIT ANALYSIS              | 16       | 6        | 0       |
| 13BJ5A0502 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 10       | 0       |
| 13BJ5A0502 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 20       | 4        | 0       |
| 13BJ5A0502 | R22054  | COMPUTER ORGANIZATION                    | 16       | 18       | 0       |
| 13BJ5A0502 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 16       | 9        | 0       |
| 13BJ5A0503 | R22052  | OBJECT ORIENTED PROGRAMMING THROUGH JAVA | 15       | 11       | 0       |
| 13BJ5A0503 | R22053  | DATA BASE MANAGEMENT SYSTEMS             | 22       | 1        | 0       |
| 13BJ5A0503 | R22054  | COMPUTER ORGANIZATION                    | 15       | 28       | 4       |
| 13BJ5A0503 | R22056  | PRINCIPLES OF PROGRAMMING LANGUAGES      | 14       | 26       | 4       |

**\*\*Note:-** For Recounting/Revaluation/Challenge By Revaluation Apply through only Online(WWW.JNTUKEXAMS.NET)) on or before 4:00pm 20-04-2015.



Date:13-04-2015

Controller of Examinations

**\*\* NOTE:-** If any Discrepancy in the results, he has to apply on or before 9-05-2015 with Hallticket,D-form,Attendance and Principal's letter.