

| 1 | KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU. | | | | | | | | | | | | | |
|-------|------------------------------------------------------------|---------------------|-----------------|-----------------|----|----|-------|----------------------------------------------|----------------------------|-------------------|-----------|-----------|-------------|---------------------------------------------|
| | TEACHING AND EXAMINATION SCHEME FOR DIPLOMA PROGRAMME. | | | | | | | | | | | | | |
| | PROGRAMME NAME: INFORMATION SCIENCE & ENGINEERING | | | | | | | PROGRAMME CODE: CS | | | | | | |
| | PATTERN: FULL TIME | | | | | | | DURATION OF PROGRAMME: 3 YEARS (6 SEMESTERS) | | | | | | |
| | SEMESTER: I | | | | | | | SCHEME: C-15 | | | | | | |
| Sl.no | Course Name | Teaching Department | Course /QP code | Teaching Scheme | | | | | Examination Scheme | | | | | |
| | | | | Contact Hours | | | | | Exam Paper Duration in Hrs | Semester End Exam | | CIE Marks | Total Marks | Min Marks for passing (including CIE marks) |
| | | | | TH | TU | PR | Total | Credit | | Max Marks | Min Marks | | | |
| 1 | Engineering Mathematics - I | Sc | 15SC01M | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 2 | Applied Science | Sc | 15SC03S | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 3 | Concepts of Electrical & Electronic Engineering | EC | 15EC01T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 4 | Applied Science Lab | Sc | 15SC04P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 5 | Basic Electronics Lab | EC | 15EC02P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 6 | Basic Computer Skills Lab | CS | 15IS11P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| | | | Total | 12 | 6 | 12 | 30 | 21 | | 450 | 180 | 150 | 600 | 240 |

1 Hr Theory = 1 Credit :: 2Hrs Practical/TU = 1 Credit .

QP Code- Question Paper code :: TH-Theory Hours :: TU-Tutorial :: PR-Practical

| 2 | KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU. | | | | | | | | | | | | | |
|--------------|------------------------------------------------------------|---------------------|-----------------|-----------------|----|----|-------|--------------|----------------------------------------------|-------------------|-----------|-----------|-------------|---------------------------------------------|
| | TEACHING AND EXAMINATION SCHEME FOR DIPLOMA PROGRAMME. | | | | | | | | | | | | | |
| | PROGRAMME NAME: COMPUTER SCIENCE & ENGINEERING | | | | | | | | PROGRAMME CODE: CS | | | | | |
| | PATTERN: FULL TIME | | | | | | | | DURATION OF PROGRAMME: 3 YEARS (6 SEMESTERS) | | | | | |
| SEMESTER: II | | | | | | | | SCHEME: C-15 | | | | | | |
| Sl.no | Course Name | Teaching Department | Course /QP code | Teaching Scheme | | | | | Examination Scheme | | | | | |
| | | | | Contact Hours | | | | | Exam Paper Duration in Hrs | Semester End Exam | | CIE Marks | Total Marks | Min Marks for passing (including CIE marks) |
| | | | | TH | TU | PR | Total | Credit | | Max Marks | Min Marks | | | |
| | | | | | 7 | | | | | | | | | |
| 1 | Engineering Mathematics - II | Sc | 15SC02M | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 2 | Communication Skills in English | Sc & Huma | 15CP01E | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 3 | Digital and Computer fundamentals | CS | 15CS21T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 4 | Digital Electronics Lab | EC | 15EC03P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 5 | Basic Web Design Lab | CS | 15IS22P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 6 | Multimedia lab | CS | 15IS23P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| | | | Total | 12 | 6 | 12 | 30 | 21 | | 450 | 180 | 150 | 600 | 240 |

1 Hr Theory = 1 Credit :: 2Hrs Practical/TU = 1 Credit .
 QP Code- Question Paper code :: TH-Theory Hours :: TU-Tutorial :: PR-Practical

| 3 | KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU. | | | | | | | | | | | | | |
|--------------|------------------------------------------------------------|---------------------|-----------------|-----------------|----|----|-------|----------------------------------------------|----------------------------|-------------------|-----------|-----------|-------------|---------------------------------------------|
| | TEACHING AND EXAMINATION SCHEME FOR DIPLOMA PROGRAMME. | | | | | | | | | | | | | |
| | PROGRAMME NAME: INFORMATION SCIENCE & ENGINEERING | | | | | | | PROGRAMME CODE: IS | | | | | | |
| | PATTERN: FULL TIME | | | | | | | DURATION OF PROGRAMME: 3 YEARS (6 SEMESTERS) | | | | | | |
| | SEMESTER: III | | | | | | | SCHEME: C-15 | | | | | | |
| Sl.no | Course Name | Teaching Department | Course /QP code | Teaching Scheme | | | | | Examination Scheme | | | | | |
| | | | | Contact Hours | | | | | Exam Paper Duration in Hrs | Semester End Exam | | CIE Marks | Total Marks | Min Marks for passing (including CIE marks) |
| | | | | TH | TU | PR | Total | Credit | | Max Marks | Min Marks | | | |
| 1 | Programming with C | IS | 15CS31T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 2 | Operating System | IS | 15CS43T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 3 | Database Management Systems | IS | 15CS33T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 4 | Computer Network | IS | 15CS34T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 5 | Programming with C Lab | IS | 15IS31P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 6 | DBMS and GUI Lab | IS | 15IS32P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 7 | Linux Lab | IS | 15IS33P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| Total | | | | 16 | 6 | 12 | 34 | 25 | | 550 | 215 | 175 | 725 | 285 |

1 Hr Theory = 1 Credit :: 2Hrs Practical/TU = 1 Credit .

QP Code- Question Paper code :: TH-Theory Hours :: TU-Tutorial :: PR-Practical

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KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU.

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA PROGRAMME.

PROGRAMME NAME: INFORMATION SCIENCE & ENGINEERING

PROGRAMME CODE: IS

PATTERN: FULL TIME

DURATION OF PROGRAMME: 3 YEARS (6 SEMESTERS)

SEMESTER: IV

SCHEME: C-15

| Sl.no | Course Name | Teaching Department | Course /QP code | Teaching Scheme | | | | | Examination Scheme | | | | | |
|--------------|-------------------------------------------|---------------------|-----------------|-----------------|----|----|-------|--------|----------------------------|-------------------|-----------|-----------|-------------|---------------------------------------------|
| | | | | Contact Hours | | | | | Exam Paper Duration in Hrs | Semester End Exam | | CIE Marks | Total Marks | Min Marks for passing (including CIE marks) |
| | | | | TH | TU | PR | Total | Credit | | Max Marks | Min Marks | | | |
| | | | | | | | | | | | | | | |
| 1 | Data Structures using C | IS | 15CS41T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 2 | OOP using Java | IS | 15CS42T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 3 | Analysis and Design of Algorithms | IS | 15IS41T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 4 | Professional Ethics & Indian Constitution | IS | 15CS44T | 4 | | | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 5 | Data Structures Lab | IS | 15IS42P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 6 | OOP with Java Lab | IS | 15IS43P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 7 | Analysis and Design of Algorithms Lab | IS | 15IS44P | | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| Total | | | | 16 | 6 | 12 | 34 | 25 | | 550 | 215 | 175 | 725 | 285 |

1 Hr Theory = 1 Credit :: 2Hrs Practical/TU = 1 Credit .

QP Code- Question Paper code :: TH-Theory Hours :: TU-Tutorial :: PR-Practical

| 5 | KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU. | | | | | | | | | | | | | |
|-------|------------------------------------------------------------|---------------------|-----------------|-----------------|----|----|-------|----------------------------------------------|----------------------------|-------------------|-----------|-----------|-------------|---------------------------------------------|
| | TEACHING AND EXAMINATION SCHEME FOR DIPLOMA PROGRAMME. | | | | | | | | | | | | | |
| | PROGRAMME NAME: INFORMATION SCIENCE & ENGINEERING | | | | | | | PROGRAMME CODE: IS | | | | | | |
| | PATTERN: FULL TIME | | | | | | | DURATION OF PROGRAMME: 3 YEARS (6 SEMESTERS) | | | | | | |
| | SEMESTER: V | | | | | | | SCHEME: C-15 | | | | | | |
| Sl.No | Course Name | Teaching Department | Course /QP code | Teaching Scheme | | | | | Examination Scheme | | | | | |
| | | | | Contact Hours | | | | | Exam Paper Duration in Hrs | Semester End Exam | | CIE Marks | Total Marks | Min Marks for passing (including CIE marks) |
| | | | | TH | TU | PR | Total | Credit | | Max Marks | Min Marks | | | |
| 1 | Software Engineering | IS | 15CS51T | 4 | - | - | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 2 | Web Programming | IS | 15CS52T | 4 | - | - | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 3 | Data mining | IS | 15IS51T | 4 | - | - | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 4 | Green Computing | IS | 15CS54T | 4 | - | - | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 5 | Web Programming lab | IS | 15IS52P | - | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 6 | PL/SQL Programming Lab | IS | 15IS53P | - | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 7 | Professional Practices lab | IS | 15IS54P | - | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 8 | Project Work - I | IS | 15IS55P | - | 1 | 2 | 3 | | End of VI Semester | - | - | 25 | - | - |
| | | | Total | 16 | 7 | 14 | 37 | 25 | | 550 | 215 | 200 | 725 | 285 |

1 Hr Theory = 1 Credit :: 2Hrs Practical/TU = 1 Credit .

QP Code- Question Paper code :: TH-Theory Hours :: TU-Tutorial :: PR-Practical

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KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU.

TEACHING AND EXAMINATION SCHEME FOR DIPLOMA PROGRAMME.

PROGRAMME NAME: INFORMATION SCIENCE &
ENGINEERING

PROGRAMME CODE: IS

PATTERN: FULL TIME

DURATION OF PROGRAMME: 3 YEARS (6 SEMESTERS)

SEMESTER: VI

SCHEME: C-15

| Sl.No | Course Name | Teaching Department | Course /QP code | Teaching Scheme | | | | | Examination Scheme | | | | | |
|-------|----------------------------------|---------------------|-----------------|-----------------|----|----|-------|--------|----------------------------|-------------------|-----------|-----------|-------------|---------------------------------------------|
| | | | | Contact Hours | | | | | Exam Paper Duration in Hrs | Semester End Exam | | CIE Marks | Total Marks | Min Marks for passing (including CIE marks) |
| | | | | TH | TU | PR | Total | Credit | | Max Marks | Min Marks | | | |
| 1 | Software Testing | IS | 15CS61T | 4 | - | - | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 2 | Big data and Analytics | IS | 15IS61T | 4 | - | - | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 3 | Elective Course | IS | *** | 4 | - | - | 4 | 4 | 3 | 100 | 35 | 25 | 125 | 45 |
| 4 | Software Testing lab | IS | 15IS63P | - | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 5 | R Programming Lab | IS | 15IS64P | - | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| 7 | Soft Skills for IT Professionals | IS | 15IS65P | - | - | 4 | 4 | 2 | - | - | - | 25 | 25 | - |
| 8 | Project Work Phase-II | IS | 15IS66P | - | 2 | 4 | 6 | 3 | 3 | 50 | 25 | 25 | 75 | 35 |
| | | | Total | 12 | 6 | 16 | 34 | 23 | | 450 | 180 | 175 | 625 | 240 |

1 Hr Theory = 1 Credit :: 2Hrs Practical/TU = 1 Credit .

QP Code- Question Paper code :: TH-Theory Hours :: TU-Tutorial :: PR-Practical

| Sl.No | Elective Course Name | Course Code |
|-------|--------------------------------|-------------|
| 1 | Cloud Computing | 15CS63B |
| 2 | Management Information Systems | 15IS62A |
| 3 | Internet of Things | 15CS63F |