

**PROPOSED CURRICULAR STRUCTURE FOR PART-II (2ND YEAR) OF THE FULL TIME
DIPLOMA COURSE IN SURVEY ENGINEERING**

| WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION | | | | | | | | | | | | |
|--|--|-----------|-----------|----------|-----------|-------------------|------------------------|------------|------------|------------|------------|-------------|
| TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES | | | | | | | | | | | | |
| BRANCH: DIPLOMA IN SURVEY ENGINEERING | | | | | | | SEMESTER: THIRD | | | | | |
| SL. NO. | SUBJECT | CREDITS | PERIODS | | | EVALUATION SCHEME | | | | | | |
| | | | L | TU | PR | INTERNAL SCHEME | | | ESE | PR # | TW @ | TOTAL MARKS |
| | | | | | | TA | CT | TOTAL | | | | |
| 1 | Chain & Compass Survey | 4 | 3 | 1 | | 10 | 20 | 30 | 70 | - | - | 100 |
| 2 | Cadastral Survey & Plane Table Surveying | 3 | 3 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 3 | Levelling & Tachometry | 3 | 3 | 1 | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 4 | Theodolite Survey | 3 | 3 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 5 | Materials & Construction Practices | 3 | 3 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 6 | Civil Engineering Drawing-I | 2 | 1 | - | 3 | - | - | - | - | 50 | 50 | 100 |
| 7 | Field Survey Practices – I | 5 | - | - | 9 | - | - | - | - | 100 | 100 | 200 |
| 8 | Professional Practice I | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| | TOTAL | 25 | 16 | 2 | 15 | 50 | 100 | 150 | 350 | 175 | 175 | 850 |

STUDENT CONTACT HOURS PER WEEK: 33 Hrs.

Theory and Practical Period of 60 Minutes each.

- External Assessment @ - Internal Assessment, **ESE** - End Semester Exam, **CT**- Class Test, **TA** - Teachers Assessment.

L – Lecturer, **TU** –Tutorial, **PR** – Practical, **TA** – Teachers' Assessment, **CT** – Class Test, **ESE** – End Semester Exam. **TW** – Term Work.

| WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION | | | | | | | | | | | | |
|--|------------------------------|-----------|-----------|----------|-----------|-------------------|-------------------------|------------|------------|------------|------------|-------------|
| TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES | | | | | | | | | | | | |
| BRANCH: DIPLOMA IN SURVEY ENGINEERING | | | | | | | SEMESTER: FOURTH | | | | | |
| SL. NO. | SUBJECT | CREDITS | PERIODS | | | EVALUATION SCHEME | | | | | | |
| | | | L | TU | PR | INTERNAL SCHEME | | | ESE | PR # | TW @ | TOTAL MARKS |
| | | | | | | TA | CT | TOTAL | | | | |
| 1 | Land Laws, Land Records | 2 | 2 | - | - | 5 | 10 | 15 | 35 | - | - | 50 |
| 2 | Accounts & Contracts | 3 | 3 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 3 | Topography & Hydrography | 3 | 3 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 4 | Tunnel & Mine Survey | 3 | 3 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 5 | Curve Setting | 2 | 2 | - | - | 5 | 10 | 15 | 35 | - | - | 50 |
| 6 | Computer Aided Drafting | 2 | - | - | 3 | - | - | - | - | 50 | 50 | 100 |
| 7 | Quantity Survey | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| 8 | Professional Practice II | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| 9 | Development of Life Skill II | 1 | - | - | 2 | - | - | - | - | 25 | 25 | 50 |
| 10 | Field Survey Practices – II | 5 | - | - | 9 | - | - | - | - | 100 | 100 | 200 |
| | TOTAL | 25 | 13 | - | 20 | 40 | 80 | 120 | 280 | 225 | 225 | 850 |

STUDENT CONTACT HOURS PER WEEK: 33 Hrs.

Theory and Practical Period of 60 Minutes each.

- External Assessment @ - Internal Assessment, **ESE** - End Semester Exam, **CT**- Class Test, **TA** - Teachers Assessment.

L – Lecturer, **TU** –Tutorial, **PR** – Practical, **TA** – Teachers' Assessment, **CT** – Class Test, **ESE** – End Semester Exam. **TW** – Term Work.

Note :- The common syllabus of Workshop Practice of 1st year students may be followed for Survey Engineering department also and the syllabus of Survey Practice subject may be covered in Field Survey Practice subject of 2nd and 3rd year.

**PROPOSED CURRICULAR STRUCTURE FOR PART-III (3RD YEAR) OF THE FULL TIME
DIPLOMA COURSE IN SURVEY ENGINEERING**

| WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION | | | | | | | | | | | | |
|--|-------------------------------|-----------|-----------|----------|-----------|------------------------|-----------|------------|------------|------------|------------|-------------|
| TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES | | | | | | | | | | | | |
| BRANCH: DIPLOMA IN SURVEY ENGINEERING | | | | | | SEMESTER: FIFTH | | | | | | |
| SL. NO. | SUBJECT | CREDITS | PERIODS | | | EVALUATION SCHEME | | | | | | |
| | | | L | TU | PR | INTERNAL SCHEME | | | ESE | PR # | TW @ | TOTAL MARKS |
| | | | | | | TA | CT | TOTAL | | | | |
| 1 | Geodesy & Astronomy | 3 | 3 | 1 | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 2 | GIS and GPS Applications | 2 | 2 | - | - | 5 | 10 | 15 | 35 | - | - | 50 |
| 3 | Cartography | 3+1 | 3 | - | 2 | 10 | 20 | 30 | 70 | 25 | 25 | 150 |
| 4 | Triangulation & Trilateration | 3 | 3 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 5 | Design of R.C.C. Structure | 4 | 4 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 6 | Civil Engineering Drawing-II | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| 7 | Professional Practice III | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| 8 | Survey Engineering Project I | 2 | - | - | 3 | - | - | - | - | 50 | 50 | 100 |
| 9 | Field Survey Practices – III | 3 | - | - | 6 | - | - | - | - | 50 | 50 | 100 |
| | TOTAL | 25 | 15 | 1 | 17 | 45 | 90 | 135 | 315 | 175 | 175 | 800 |

STUDENT CONTACT HOURS PER WEEK: 33 Hrs.

Theory and Practical Period of 60 Minutes each.

- External Assessment @ - Internal Assessment, **ESE** - End Semester Exam, **CT** - Class Test, **TA** - Teachers Assessment.

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| WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION | | | | | | | | | | | | |
|--|-----------------------------------|-----------|-----------|----------|-----------|------------------------|-----------|------------|------------|------------|------------|-------------|
| TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES | | | | | | | | | | | | |
| BRANCH: DIPLOMA IN SURVEY ENGINEERING | | | | | | SEMESTER: SIXTH | | | | | | |
| SL. NO. | SUBJECT | CREDITS | PERIODS | | | EVALUATION SCHEME | | | | | | |
| | | | L | TU | PR | INTERNAL SCHEME | | | ESE | PR # | TW @ | TOTAL MARKS |
| | | | | | | TA | CT | TOTAL | | | | |
| 1 | Industrial Management | 3 | 4 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 2 | Environmental Engineering | 4 | 4 | 1 | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 3 | Photogrammetry and Remote Sensing | 3 | 4 | - | - | 10 | 20 | 30 | 70 | - | - | 100 |
| 4 | Elective (any one) | 3 | 3 | 1 | - | 10 | 20 | 30 | 70 | - | - | 100 |
| | Municipal Engineering | | | | | | | | | | | |
| | Mining Technology | | | | | | | | | | | |
| | Town & Country Planning | | | | | | | | | | | |
| | Transmission Line Survey | | | | | | | | | | | |
| 5 | Survey Training Camp | 3 | - | - | 3 | - | - | - | - | 75 | 75 | 150 |
| 6 | GIS and GPS Applications | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| 7 | Survey Software | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| 8 | Professional Practice IV | 2 | - | - | 3 | - | - | - | - | 25 | 25 | 50 |
| 9 | Survey Engineering Project II | 2 | - | - | 4 | - | - | - | - | 50 | 50 | 100 |
| 10 | General Viva-Voce | 1 | - | - | - | - | - | - | - | - | 100 | 100 |
| | TOTAL | 25 | 15 | 2 | 15 | 40 | 80 | 120 | 280 | 200 | 300 | 900 |

STUDENT CONTACT HOURS PER WEEK: 32 Hrs.

Theory and Practical Period of 60 Minutes each.

- External Assessment @ - Internal Assessment, **ESE** - End Semester Exam, **CT** - Class Test, **TA** - Teachers Assessment.

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Ψ In lieu of 3 pds/week, 2 weeks extensive field work be arranged and 3 pds/week may be used for office computation, Class routine should be framed accordingly and the above-mentioned marks for the subject will be awarded to the students on the basis of report submitted