

CURRICULUM STRUCTURE

Diploma in Geomatics Engineering

YEAR: I

PART: I

| S.N. | Code No. | Subjects | Teaching Scheme | | | | | | Examination Scheme | | | | | | Total Marks | Remarks |
|--------------|------------|---------------------------|-----------------|----------|----------|----------|--------------|--------------|-----------------------|-------------|------------|--------------|-------------|------------|-------------|------------------------|
| | | | Mode | | | | Weekly Hours | Credit Hours | DISTRIBUTION OF MARKS | | | | | | | |
| | | | L | T | P | Lab | | | Theory | | | Practical | | | | |
| | | | | | | | | | *Assmt Marks | Final Marks | Time Hours | *Assmt Marks | Final Marks | Time Hours | | |
| 1 | EG 1101 SH | Applied Nepali | 4 | | | | 4 | 4 | 20 | 80 | 3 | | | | 100 | *Continuous assessment |
| 2 | EG 1102 SH | Applied English | 4 | | | | 4 | 4 | 20 | 80 | 3 | | | | 100 | |
| 3 | EG 1103 SH | Engineering Mathematics I | 4 | 2 | | | 6 | 4 | 20 | 80 | 3 | | | | 100 | |
| 4 | EG 1104 SH | Engineering Physics I | 4 | 2 | | 2 | 8 | 5 | 20 | 60 | 3 | 10 | 10 | 2 | 100 | |
| 5 | EG 1105 SH | Engineering Chemistry I | 4 | 2 | | 2 | 8 | 5 | 20 | 60 | 3 | 10 | 10 | 2 | 100 | |
| 6 | EG 1101 AR | Engineering Drawing I | 1 | | 4 | | 5 | 3 | 0 | 0 | | 60 | 40 | 4 | 100 | |
| 7 | EG 1101 CT | Computer Application | 2 | | 2 | | 4 | 3 | 10 | 40 | 1.5 | 30 | 20 | 3 | 100 | |
| TOTAL | | | 23 | 6 | 6 | 4 | 39 | 28 | | | | | | | 700 | |

YEAR: I

PART : II

| S.N. | Code No. | Subjects | Teaching Scheme | | | | | | Examination Scheme | | | | | | Total Marks | Remarks |
|--------------|------------|----------------------------|-----------------|----------|-----------|----------|--------------|--------------|-----------------------|-------------|------------|--------------|-------------|------------|-------------|------------------------|
| | | | Mode | | | | Weekly Hours | Credit Hours | DISTRIBUTION OF MARKS | | | | | | | |
| | | | L | T | P | Lab | | | Theory | | | Practical | | | | |
| | | | | | | | | | *Assmt Marks | Final Marks | Time Hours | *Assmt Marks | Final Marks | Time Hours | | |
| 1 | EG 1201 SH | Engineering Mathematics II | 4 | 2 | | | 6 | 4 | 20 | 80 | 3 | | | | 100 | *Continuous assessment |
| 2 | EG 1202 SH | Engineering Physics II | 4 | 2 | | 2 | 8 | 5 | 20 | 60 | 3 | 10 | 10 | 2 | 100 | |
| 3 | EG 1203 SH | Engineering Chemistry II | 4 | 2 | | 2 | 8 | 5 | 20 | 60 | 3 | 10 | 10 | 2 | 100 | |
| 4 | EG 1201 CE | Workshop Practice I | 2 | | 6 | | 8 | 5 | | | | 60 | 40 | 4 | 100 | |
| 5 | EG 1201 AR | Engineering Drawing II | 0 | | 4 | | 4 | 2 | | | | 60 | 40 | 4 | 100 | |
| 6 | EG 1202 CE | Applied Mechanics | 3 | 2 | | 2/2 | 6 | 4 | 20 | 60 | 3 | 20 | | | 100 | |
| TOTAL | | | 17 | 8 | 10 | 5 | 40 | 25 | | | | | | | 600 | |

Diploma in Geomatics Engineering

YEAR: II

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|--------------|-------------|---|-----------------|---|-----------|----------|--------------|--------------------|-----------------------|----|---|-----------|-----|-------------|------------|------------------------|
| | | | Mode | | | | Weekly Hours | Credit Hours | DISTRIBUTION OF MARKS | | | | | | | |
| | | | L | T | P | Lab | | | Theory | | | Practical | | | | |
| Asst Marks | Final Marks | Exam Hours | | | | | Asst Marks | Final Marks | Exam Hours | | | | | | | |
| 1 | EG 2101 GE | Fundamentals of Surveying and Geomatics | 6 | | | 2 | 8 | 7 | 20 | 80 | 3 | 25 | | | 125 | *Continuous assessment |
| 2 | EG 2102 GE | Control Survey | 6 | | 9 | | 15 | 11 | 20 | 80 | 3 | 150 | 100 | 6 | 350 | |
| 3 | EG 2103 GE | Survey Instrument and Concepts | 1 | | 6 | | 7 | 4 | | | | 120 | 80 | 6 | 200 | |
| 4 | EG 2104 GE | Survey Mathematics and Computation | 4 | | | | 4 | 4 | 20 | 80 | 3 | | | | 100 | |
| 5 | EG 2105 GE | GIS Basics | 3 | | 3 | | 6 | 5 | 20 | 80 | 3 | 60 | 40 | 4 | 200 | |
| TOTAL | | | 20 | | 18 | 2 | 40 | 31 | | | | | | | 975 | |

YEAR: II

PART: II

| SN | Course Code | Subject | Teaching Scheme | | | | | Examination Scheme | | | | | | Total Marks | Remarks | |
|--------------|-------------|--------------------------|-----------------|---|-----------|----------|--------------|--------------------|-----------------------|----|---|-----------|----|-------------|------------|------------------------|
| | | | Mode | | | | Weekly Hours | Credit Hours | DISTRIBUTION OF MARKS | | | | | | | |
| | | | L | T | P | Lab | | | Theory | | | Practical | | | | |
| Asst Marks | Final Marks | Exam Hours | | | | | Asst Marks | Final Marks | Exam Hours | | | | | | | |
| 1 | EG 2201 GE | Cartography | 4 | | 2 | | 6 | 5 | 20 | 80 | 3 | 30 | 20 | 3 | 150 | *Continuous assessment |
| 2 | EG 2202 GE | Cadastral Surveying | 4 | | 8 | | 12 | 8 | 20 | 80 | 3 | 120 | 80 | 6 | 300 | |
| 3 | EG 2203 GE | Geodesy and Astronomy | 4 | | | 2 | 6 | 5 | 20 | 80 | 3 | 25 | | | 125 | |
| 4 | EG 2204 GE | Land Development and CAD | 1 | | 3 | | 4 | 3 | | | | 60 | 40 | 4 | 100 | |
| 5 | EG 2205 GE | Topographical Survey | 4 | | 8 | | 12 | 8 | 20 | 80 | 3 | 120 | 80 | 6 | 300 | |
| TOTAL | | | 17 | | 21 | 2 | 40 | 29 | | | | | | | 975 | |

Diploma in Geomatics Engineering

YEAR: III

PART: I

| SN | Course Code | Subject | Teaching Scheme | | | | | | Examination Scheme | | | | | | Total Marks | Remarks |
|--------------|-------------|-----------------------------------|-----------------|---|-----------|----------|--------------|--------------|-----------------------|-------------|------------|------------|-------------|------------|------------------------|---------|
| | | | Mode | | | | Weekly Hours | Credit Hours | DISTRIBUTION OF MARKS | | | | | | | |
| | | | L | T | P | Lab | | | Theory | | | Practical | | | | |
| | | | | | | | | | Asst Marks | Final Marks | Exam Hours | Asst Marks | Final Marks | Exam Hours | | |
| 1 | EG 3101 GE | Photogrammetry and Remote Sensing | 6 | | 6 | | 12 | 9 | 20 | 80 | 3 | 100 | 50 | 4 | *Continuous assessment | |
| 3 | EG 3102 GE | Survey Camp | | | 9 | | 9 | 5 | | | | 150 | 100 | 6 | | 250 |
| 4 | EG 3103 GE | GIS Applications | 4 | | 6 | | 10 | 7 | 20 | 80 | 3 | 100 | 50 | 4 | | 250 |
| 2 | EG 3104 GE | Land Administration and Land Laws | 4 | | | 2 | 6 | 5 | 20 | 80 | 3 | 25 | | | | 125 |
| 5 | EG 3105 GE | Survey Project Management | 3 | | | | 3 | 3 | 20 | 80 | 3 | | | | | 100 |
| TOTAL | | | 17 | | 21 | 2 | 40 | 29 | | | | | | | 975 | |

YEAR: III

PART: II

| SN | Course Code | Subject | Teaching Scheme | | | | | | Examination Scheme | | | | | | Total Marks | Remarks |
|--------------|-------------|---|-----------------|---|-----------|-----|--------------|--------------|-----------------------|-------------|------------|--------------|-------------|------------|------------------------|---------|
| | | | Mode | | | | Weekly Hours | Credit Hours | DISTRIBUTION OF MARKS | | | | | | | |
| | | | L | T | P | Lab | | | Theory | | | Practical | | | | |
| | | | | | | | | | *Assmt Marks | Final Marks | Exam Hours | *Assmt Marks | Final Marks | Exam Hours | | |
| 1 | EG 3201 GE | Engineering Survey | 4 | | 8 | | 12 | 8 | 20 | 80 | 3 | 120 | 80 | 6 | *Continuous assessment | |
| 2 | EG 3201 MG | Entrepreneurship Development | 3 | | 2 | | 5 | 4 | 20 | 60 | 3 | 10 | 10 | 2 | | 100 |
| 3 | EG 3202 GE | Civil Construction and Quantity Estimation | 4 | | 2 | | 6 | 5 | 20 | 80 | 3 | 30 | 20 | 3 | | 150 |
| 5 | EG 3203 GE | Project Work | | | 13 | | 13 | 7 | | | | 230 | 120 | 8 | | 350 |
| 4 | EG 3204 GE | Fundamental of Social Science and Environment | 4 | | | | 4 | 4 | 20 | 80 | 3 | | | | | 100 |
| TOTAL | | | 15 | | 25 | | 40 | 28 | | | | | | | 975 | |

L=Lecture, T=Tutorial, P=Practical