

MODE OF STUDY

Year 1

Hours(Lec., Tut., Lab) CCC

Semester 1 (R)

| | | | |
|--------------|--|---------|-----------|
| MAE 101 | Introductory mathematics for Geomatics | (4-1-0) | 20 |
| PHE 103 | Introductory Physics for Geomatics | (4-1-1) | 21 |
| CSE 105 | Computer skills fundamentals for Geomatics | (2-0-4) | 15 |
| GEOM 107 | Introduction to Surveying | (1-0-4) | 10 |
| GEOM 109 | Introduction to Remote Sensing | (3-0-0) | 13 |
| Total | | | 79 |

Session:
Nov-Dec

Exam:
After finishes
class

Semester 2 (D)

| | | | |
|--------------|--|---------|-----------|
| GEOM 102 | Introduction to GIS | (3-0-0) | 13 |
| GEOM 104 | Thermal, Hyper spectral and Microwave Remote Sensing | (3-0-0) | 13 |
| GEOM 106 | Survey Computations | (3-0-0) | 13 |
| GEOM 108 | Map reading and projection | (3-0-0) | 13 |
| GEOM 110 | Introduction to Global positioning System | (3-0-0) | 13 |
| Total | | | 65 |

Session:
Feb-June

Exam: First
week of July

Year 2

Semester 3 (R)

| | | | |
|--------------|--|---------|-----------|
| GEOM 201 | Satellite Image interpretation using Erdas Imagine | (1-2-4) | 15 |
| GEOM 203 | GIS practice using ArcGIS | (1-2-4) | 15 |
| GEOM 205 | Introduction to Geomatics | (1-0-6) | 13 |
| GEOM 207 | Practice on Global Navigation System (GPS/GNSS) | (1-0-6) | 13 |
| GEOM 209 | Computer Aided Drafting - Autocad | (1-0-4) | 10 |
| Total | | | 66 |

Session:
Nov-Dec

Exam:
After finishes
class

Semester 4 (D)

| | | | |
|--------------|----------------------------------|---------|-----------|
| GEOM 202 | Surveying and mapping Practice | (3-0-0) | 13 |
| GEOM 204 | Digital Image processing | (3-0-0) | 13 |
| GEOM 206 | Land Tenure and Administration | (3-0-0) | 13 |
| GEOM 208 | Geodesy and Geodetic positioning | (3-0-0) | 13 |
| GEOM 210 | Data base management | (3-0-0) | 13 |
| Total | | | 65 |

Session:
Feb-June

Exam: First
week of July

DIPLOMA Complete

Year 3

Semester 5 (R)

| | | | |
|--------------|---|---------|-----------|
| GEOM 301 | Satellite Image enhancement, classification & mapping | (1-2-4) | 15 |
| GEOM 303 | Programming for Geomatics | (1-0-4) | 10 |
| GEOM 305 | Engineering Survey | (1-0-4) | 10 |
| GEOM 307 | Subdivision principle and design | (1-0-4) | 10 |
| GEOM 309 | Introduction to Mapinfo professional | (0-2-6) | 13 |
| Total | | | 58 |

Session:
Nov-Dec

Exam:
After finishes
class

Semester 6 (D)

| | | | |
|--------------|---|---------|-----------|
| GEOM 302 | Statistics for Geomatics | (2-1-0) | 11 |
| GEOM 304 | Remote Sensing application | (3-0-0) | 13 |
| GEOM 306 | Marine geomatics and resource management | (3-0-0) | 13 |
| GEOM 308 | Aerial photography and Photogrammetric measurements | (3-0-0) | 13 |
| GEOM 310 | Introduction to urban and regional planning | (3-0-0) | 13 |
| Total | | | 63 |

Session:
Feb-June

Exam: First
week of July

Year 4

Semester 7 (R)

| | | | | |
|----------|--|---------|--------------|---|
| GEOM 401 | Spatial data modelling, analysis & mapping -ArcGIS | (0-2-4) | 10 | Session: Nov-Dec Exam: After finishes class |
| GEOM 403 | Cadastral surveying principle and practice | (1-0-4) | 10 | |
| GEOM 405 | Satellite Geodesy | (2-2-0) | 13 | |
| GEOM 407 | Writing a Research Paper and managing research project | (2-2-0) | 13 | |
| GEOM 409 | RS/GIS/Geomatics project proposal | (1-0-5) | 12 | |
| | | | Total | 58 |

Semester 8 (D)

| | | | | |
|----------|-----------------------------------|----------|--------------|---|
| GEOM 402 | Application of Geoinformatics | (3-0-0) | 13 | Session: Feb-June Exam: First week of July |
| GEOM 404 | Geomatics in Hydrographic survey | (3-0-0) | 13 | |
| GEOM 406 | Transportation Engineering | (3-0-0) | 13 | |
| GEOM 409 | RS/GIS/Geomatics project progress | (0-0-10) | 15 | |
| | | | Total | |

Semester 9 (R)

| | | | | |
|----------|---|----------|--------------|---------------------|
| GEOM 411 | Spatial data handling using open source GIS S/W | (0-2-4) | 10 | Session: Nov-Dec |
| GEOM 409 | RS/GIS/Geomatics project Implementation | (0-0-15) | 22 | |
| | | | Total | |

TOTAL- 22 Residential (5R) and 19 distance (4D) courses: 540CCC

Exam:
After finishes