

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017

M.Tech. Geoinformatics

I SEMESTER

| Sl. No | Subject Code | Title | Teaching Hours /Week | | Examination | | | | Credit |
|--------------|--------------|---|----------------------|---------------------------------|-------------|------------|------------------------|-------------|-----------|
| | | | Theory | Practical/Field Work/Assignment | Duration | I.A. Marks | Theory/Practical Marks | Total Marks | |
| 1 | 16CGI11 | Fundamentals of Geostatistics | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 2 | 16CGI12 | Fundamentals of Remote Sensing | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 3 | 16CGI13 | Fundamentals of Geographic Information System (GIS) | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 4 | 16CGI14 | Fundamentals of Photogrammetry | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 5 | 16CGI15X | Elective-1 | 3 | - | 3 | 20 | 80 | 100 | 3 |
| 6 | 16CGI16 | Lab Components (Geoinformatics Laboratory- I) | | 3 | 3 | 20 | 80 | 100 | 2 |
| 7 | 16CGI17 | Seminar | - | 3 | - | 100 | - | 100 | 1 |
| TOTAL | | | 19 | 6 | 18 | 220 | 480 | 700 | 22 |

| Elective | |
|-----------------|--|
| 16CGI151 | Geospatial Database Management System |
| 16CGI152 | Advanced Remote Sensing |
| 16CGI153 | Introduction to Cartography |
| 16CGI154 | Introduction to Natural Resources Management |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017

M.Tech.Geoinformatics

II SEMESTER

| Sl. No | Subject Code | Title | Teaching Hours /Week | | Examination | | | | Credit |
|--------------|--------------|--|----------------------|---------------------------------|-------------|------------|------------------------|-------------|-----------|
| | | | Theory | Practical/Field Work/Assignment | Duration | I.A. Marks | Theory/Practical Marks | Total Marks | |
| 1 | 16CGI21 | Satellite Data Image Processing | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 2 | 16CGI22 | Applications of Geoinformatics in Natural Resources and Environmental Management | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 3 | 16CGI23 | Cartography, Geodesy and Global Positioning System | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 4 | 16CGI24 | Web Applications in Geoinformatics | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 5 | 16CGI25X | Elective-2 | 3 | - | 3 | 20 | 80 | 100 | 3 |
| 6 | 16CGI26 | Lab Component (Geoinformatics Laboratory-II) | | 3 | 3 | 20 | 80 | 100 | 2 |
| 7 | 16CGI27 | Seminar | - | 3 | - | 100 | - | 100 | 1 |
| TOTAL | | | 19 | 6 | 18 | 220 | 480 | 700 | 22 |

| Elective | |
|-----------------|--|
| 16CGI251 | Basics of Computer Engineering |
| 16CGI252 | Applications of Geoinformatics in Urban Planning and Management |
| 16CGI253 | Applications of Geoinformatics in Ocean, Marine and Coastal Resources Management |
| 16CGI254 | Geoinformatics in Demography, Business, Health and Infrastructure |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017

M.Tech. Geoinformatics

III SEMESTER: Internship

| Sl. No | Subject Code | Title | Teaching Hours /Week | | Examination | | | Credit | |
|--------------|--------------|--|----------------------|---------------------------------|-------------|------------|------------------------|------------|-------------|
| | | | Theory | Practical/Field Work/Assignment | Duration | I.A. Marks | Theory/Practical Marks | | Total Marks |
| 1 | 16CGI31 | Seminar / Presentation on Internship (After 8 weeks from the date of commencement) | - | - | - | 25 | - | 25 | 20 |
| 2 | 16CGI32 | Report on Internship | - | - | - | 50 | - | 50 | |
| 3 | 16CGI33 | Evaluation and Viva-Voce of Internship | - | - | - | - | 75 | 75 | |
| 4 | 16CGI34 | Evaluation of Project phase -1 | - | - | - | 25 | - | 25 | 1 |
| TOTAL | | | - | - | - | 100 | 75 | 175 | 21 |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017

M.Tech. Geoinformatics

IV SEMESTER

| Sl. No | Subject Code | Title | Teaching Hours /Week | | Examination | | | Credit | |
|--------------|--------------|---|----------------------|---------------------------------|-------------|------------|------------------------|------------|-------------|
| | | | Theory | Practical/Field Work/Assignment | Duration | I.A. Marks | Theory/Practical Marks | | Total Marks |
| 1 | 16CGI41 | Geoinformatics in Project Planning and Management | 4 | - | 3 | 20 | 80 | 100 | 4 |
| 2 | 16CGI42 | Elective-3 | 3 | - | 3 | 20 | 80 | 100 | 3 |
| 3 | 16CGI43 | Evaluation of Project phase -2 | - | - | - | 50 | - | 50 | 3 |
| 4 | 16CGI44 | Evaluation of Project and Viva-Voce | - | - | 3 | - | 100+100 | 200 | 10 |
| TOTAL | | | - | - | 6 | 60 | 75 | 450 | 20 |

| Elective | |
|----------|--|
| 16GCI421 | Applications of Geoinformatics in Disaster Management |
| 16CGI422 | Applications of Geoinformatics in Water Resources Management |
| 16CGI423 | Applications of Geoinformatics in Civil Engineering. |
| 16CGI424 | Emerging Trends in Geoinformatics |

Note:

1. **Project Phase-1:** 6-week duration shall be carried out between 2nd and 3rd Semester vacation. Candidates in consultation with the guide shall carry out literature survey/ visit industries to finalize the topic of Project.
2. **Project Phase-2:** 16-week duration during 4th semester. Evaluation shall be done by the committee constituted comprising of HoD as Chairman, Guide and Senior faculty of the department.
3. **Project Evaluation:** Evaluation shall be taken up at the end of 4th semester. Project work evaluation and Viva-Voce examination shall conducted
4. **Project evaluation:**
 - a. Internal Examiner shall carry out the evaluation for 100 marks.
 - b. External Examiner shall carry out the evaluation for 100 marks.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2016-2017

- c .The average of marks allotted by the internal and external examiner shall be the final marks of the project evaluation.
- d. Viva-Voce examination of Project work shall be conducted jointly by Internal and External examiner for 100 marks.

TENTATIVE