|  |
| --- |
| **University of South Eastern, Faculty of Arts and Culture** |
| Course Code | GEM 32023 |
| Course Title | Remote Sensing and Global Positioning System. |
| Department | Geography |
| Medium | Tamil & English |
| Semester | 2017/ 2018 - II |
| Credits | 03 |
| Status Compulsory/optional | Compulsory |
| Prerequisites | Nil |
| Lecturer | Mr. MHM. Rinos |
| Supporting Lecturer |  |
| Method of Evaluation | Continuous Assessment & Final Examination |
| **Course Outline** |
| **Course Objectives:** Provide feasibility of a remote sensing image interpretation application. Compare modern and traditional classification methods of RS and GPS. |
| **Week** | **Lecture Topic(s)** | **Hours** |
| 1. | Introduction to Satellites & Remote Sensing | 03 |
| 2. | History & Development of Remote Sensing  | 03 |
| 3. | Concept and Essential Components of Remote Sensing | 03 |
| 4. | Electro Magnetic Radiation (EMR) & the Signals | 03 |
| 5. | Sensors and Sensor Platforms | 03 |
| 6. | Remote Sensing Data Acquisition and Dissemination  | 03 |
| 7. | Aerial Photography | 03 |
| 8. | Applications of Aerial Photography | 03 |
| 9. | Microwave Remote Sensing | 03 |
| 10. | Applications of Microwave Remote Sensing | 03 |
| 11. | Global Positioning Systems (GPS) | 03 |
| 12. | Image Interpretation | 03 |
| 13. | Image Classification | 03 |
| 14. | Digital Image Processing | 03 |
| 15. | Applications of Remote Sensing | 03 |
| Total |  | 45 |
| **Selected Readings** |
| * Marshall Cavendish (2003), “How it works science and Technology: firework and flare Global Positioning System”, New York.
* rPdpthrd; T., fhspag;gd; A., (2004)> Gtpapay; Nky;epiy: jkpo;ehL ghlE}y; fofk;> jkpo;ehL.
* Panda B.C., (2005), “Remote Sensing principles and applications”, Viva books Pvt. Ltd., New Delhi.
* Lillisand, Thomas M., Chipman, Jonathan W., Keifer, Ralph (2014), “Remote Sensing and Image Interpretation”, John Willy & Sons, New York.
 |