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| **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. | | | |