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| LESSON PLAN OF 6TH SEMESTER(2016-19) CIVIL ENGINEERING |
| Discipline :-CIVIL  | Semester:-6TH  | Name of the Teaching Faculty  |
| Subject:-Disaster management | No of Days/per Week Class Allotted :-04 | Semester From:- **02ND JAN,2019** To:- **15TH APRIL, 2019** No of Weeks:- **14** |
| **Week** | **Class Day** | **Theory/ Practical Topics** |
| 1st | 1st |  1.0-Introduction 1.1- Definition of hazards, disasters. Explain the difference between hazard and disaster. 1.2 – Concept of risk and vulnerability. Risk reduction: preparedness and mitigation. |
| 2nd | 1.3 – Disaster management cycle. 1.4- Personal and community awareness. |
| 3rd | 1.5- Types of disasters, earthquake, Tsunami, Landslide |
| 4th | cyclone ,flood,drought,forest fire, Chemical and industrial accidents. |
| 2nd | 1st | 2.0-Earthquakes. 2.1- definition and concept ,intensity, Richter’s scale |
| 2nd | 2.2- Element of risk. 2.3- Hazard Zones in India. |
| 3rd | 2.4- Typical effects. |
| 4th | 2.5- Main mitigation strategies, safe Engineering practice,Indian Standard code and enforcement Bye-Laws. |
| 3rd | 1st | 3.0- Tsunami. 3.1- Definition concept. 3.2- Onset, type and cases. |
| 2nd | 3.3- Warming. 3.4- Elements at risk. |
| 3rd | 3.5-Typical effects :Physical damage, environmental damage ,casualties and Public health. 3.6-Specific preparedness: Hazard mapping, |
| 4th | early warning systems, Community preparedness. 3.7- Main mitigation strategies: Site planning and land management, Engineering structures. Flood management. |
| 4th | 1st | 4.0- Landslides. 4.1-Definition, concept. 4.2- Onset time and warning. 4.3- Causes |
| 2nd | 4.4-Elements at risk.4.5-Hazard zones and Indian landslides. 4.6-Typical effects: Physical damage, casualties. |
| 3rd | 4.7- Main mitigation strategies: Hazard mapping, Landslide practice, retaining walls, Surface drainage control works, Engineering structures. |
| 4th | 4.8- Community based mitigation. |
| 5th | 1st | 5.0-Cyclones. 5.1-Definition, concept. 5.2-Onset type, Warning |
| 2nd | 5.3-Elements at risk. 5.4-Typical effects. 5.5-Indian Hazard Zones |
| 3rd | 5.6- Main mitigation strategies: Hazard mapping, Land use control , Engineering Structures, Flood management, improving vegetation cover. |
|  | 4th  | 5.7- community based mitigation. |
| 6th  | 1st | 6.0- Floods.6.1- Definition, concept, Onset type.6.2- Warning. |
| 2nd | 6.3- Elements at risk. 6.4- Hazard zones and Indian floods.6.5- Typical effects: Physical damage, Casualties and Public health ,Crops and flood |
| 3rd | 6.6- Main mitigation strategies: Mapping of the flood prone areas, land use control, Flood control and management. |
| 4th | 6.7- Community based mitigation |
| 7th | 1st | 7.0- Droughts. 7.1- Definition, concept.7.2- Onset type and warning. |
| 2nd | 7.3- Elements at risk. 7.4- Typical effects. |
| 3rd | 7.5- Main mitigation strategies: drought monitoring, water supply augmentation and conservation. |
| 4th | 7.6- Drought Planning. |
| 8th | 1st | 8.0- Forest Fire. 8.1- Definition and concept. 8.2- Forest fire damages in India |
| 2nd | 8.3- Operational fire management systems and organizations. 8.4- Community involvement. |
| 3rd | 8.5-Public policies concerning fire. |
| 4th | 8.6- the needs of fire management. |
| 9th | 1st | 9.0- Other type of Hazards and disasters |
| 2nd | 9.1- Chemical and Industrial disasters: brief description, effects, preparedness |
| 3rd | 9.2- Epidemic: Onset type, warning |
| 4th | causes and effects, risk reduction measures |
| 10th | 1st | 9.3- Heat waves: definition |
| 2nd | dangers and effects, Forecasts and warning, awareness. |
| 3rd | 10.0- Policy |
| 4th | Planning and Institutions for disaster mitigation |
| 11th | 1st | 10.1-Role of policy makers |
| 2nd | disaster risk reduction |
| 3rd | course for specific action |
| 4th | 10.2-Institutional arrangement in India |
| 12th | 1st | Central level |
| 2nd | State Level |
| 3rd | District Level |
| 4th | Block level |
| 13th | 1st | 10.3- Major institutions |
| 2nd | National Level |
| 3rd | State level. |
| 4th | Doubt clearing classes |
| 14th | 1st | Doubt clearing classes |
| 2nd | Previous year question and answers discussion |
| 3rd | Previous year question and answers discussion |
| 4th | Previous year question and answers discussion |