# Lesson Plan

**Name Of Faculty** : Sunita

**Discipline** : Arch. Asst.

**Semester** : 5$^{th}$ sem.

**Subject** : RCC

**Lesson Plan Duration** : 15 week( July 2018 to Nov 2018)

| Week | Theory | | Practical | |
|------|--------|--|-----------|--|
| | **Lecture Day** | **Topic ( Including Assignment / Test )** | **Practical Day** | **Topic** |
| Ist | 1 | Concept of reinforced cement concrete | 1$^{st}$ | |
| | 2 | Reinforced material: <br>-suitability of steel as reinforced material <br>-physical property | | |
| IInd | 3 | Working stress method | 2$^{nd}$ | |
| | 4 | Limit state method | | |
| IIIrd | 5 | Shear and development length | 3$^{rd}$ | |
| | 6 | Shear as per IS:456-2000 by working stress method <br>-Shear strength of concerte without sheaqr reinforced | | |
| IVth | 7 | -maximum shear stress <br>- Shear reinforcement | 4$^{th}$ | |
| | 8 | Singly reinforcement beam <br>-basic assumption and stress strain curve,neutral axis,balance | | |
| Vth | 9 | Design of singly reinforced beam including sketches showing reinforced details | 5$^{th}$ | |
| | 10 | **Sessional-1st** | | |
| VIth | 11 | Concept of limit state method <br>-Defination and assumption made in | 6$^{th}$ | |

| | | limit state of collapse | | |
|---|---|---|---|---|
| | 12 | -partial factor of safety for material <br> - partial factor of safety for loads | | |
| VIIth | 13 | -Design loads <br> -Stress block diagram | 7th | |
| | 14 | Theory of singly reinforced beam | | |
| VIIIth | 15 | Design of singly reinforced beam by limit state method | 8th | |
| | 16 | Theory of doubly reinforced beam | | |
| IXth | 17 | Design of singly supported doubly reinforced reactangular beam by limit state method | 9th | |
| | 18 | Behaviour of t-beam, inverted T beam,isolated T beam& l Beam | | |
| Xth | 19 | Thory of one way slab | 10th | |
| | 20 | **Sessional - 2nd** | | |
| XIth | 21 | Design of one way simply supported slab including sketches showing reinforcement details | 11th | |
| | 22 | Thory of two way slab | | |
| XIIth | 23 | Design of two way simply supported slab with corner to lift including sketches showing reinforcement details | 12th | |
| | 24 | Defination & classification of columns | | |
| XIIIth | 25 | Effective length of column | 13th | |
| | 26 | Spppecification for longitudinal &lateral reinforcement | | |
| XIVth | 27 | Concept of foundation | 14th | |
| | 28 | Concept of pre-stressed concerte, advantages & disadvantages | | |

| XVth | 29 | Mehtod of pre-stressing | 15th | |
|------|----|----|------|---|
| | 30 | **Sessional -3rd** | | |