# GUJARAT TECHNOLOGICAL UNIVERSITY

## 4th Semester Civil Engineering – PDDC

### Subject Code / Teaching / Examination Scheme & Example for Calculating SPI

| Subject Code | Subject Name | Teaching Scheme (Hours) | | | Credits | Examination Marks | | | | Branch Code |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | External Exam (Theory) | Mid Sem. Exam (Theory) | Internal Assessment | Total Marks | |
| X40601 | Environmental Engineering | 4 | - | 2 | 6 | 70 | 30 | 50 | 150 | 6 |
| X40602 | Concrete Technology | 4 | - | 2 | 6 | 70 | 30 | 50 | 150 | 6 |
| X40603 | Soil Engineering | 4 | - | 2 | 6 | 70 | 30 | 50 | 150 | 6 |

| Example for Calculation of SPI (Semester Performance Index) in GTU | | | | | | Grade System | | |
|---|---|---|---|---|---|---|---|---|
| Subject | Credit | Marks | Grade | Grade Point | Credit * Grade Point | Marks | Grade | Grade Point |
| Environmental Engineering | 6 | 52 | CC | 6 | 36 | 85 to 100 | AA | 10 |
| Concrete Technology | 6 | 67 | BB | 8 | 48 | 75 to 84 | AB | 9 |
| Soil Engineering | 6 | 76 | AB | 9 | 54 | 65 to 74 | BB | 8 |
| Total | 18 | | | | 138 | 55 to 64 | BC | 7 |
| SPI = | SUM (Credit * Grade Point) / SUM (Credit) | | | | | 45 to 54 | CC | 6 |
| = | 138/18 | | | | | 40 to 44 | CD | 5 |
| SPI = | 7.67 | | | | | 35 to 39 | DD | 4 |
| | | | | | | <35 | FF | 0 |

| Requirement of Minimum Passing Marks | | |
|---|---|---|
| Particulars | Marks | Minimum marks required for passing |
| Mid Semester Test conducted by Institutes | 30 | 12 |
| GTU End Semester Examination | 70 | 23 |
| Total | 100 | 35 |
| Term Work, Practical, Attendance, etc... (This is not used to calculate SPI or CPI) | 50 | 25 |

$$SPI = \frac{SUM\ (Credit * Grade\ Point)}{SUM\ (Credit)} = \frac{138}{18} = 7.67$$