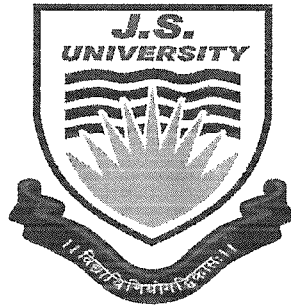


# **J.S. University, Shikohabad**

Established by UP Govt. Act No. 07 of 2015


Recognized by U.G.C. under section 2 (f) of Act-1956



## **VALUE ADDED COURSE**

**(Course on Advanced field Surveying Techniques)**

**Faculty of Art**

|   |  |                           |
|---|--|---------------------------|
|  | <b>J.S. University, Shikohabad</b><br><b>Faculty of Arts</b> | <b>Value Added Course</b> |
|   |  | AY: 2020-2021             |

## **Course on Advanced field Surveying Techniques**

### **Learning objectives:**

- This Course will provide knowledge about prepare map plan for a region and field related techniques.
- It develop employability skills and competencies to serve the job requirements in the field of b surveying
- Inspiration from Geography to deal with contemporary.

**Duration:** 30 Hours. (Theory and Practical)


### **Course Outcomes: -**

After completion of the course the student will be able to:-

- Understand the different surveying instruments and their techniques.
- Knowledge about the layout or drawing of the study area.
- Understand the recent trends in the field surveying.
- Understand the new GIS techniques used with advanced surveying.

| <b>Sr. No.</b> | <b>Content</b>                   | <b>Duration (30 Hrs)</b> |
|----------------|----------------------------------|--------------------------|
| <b>1.</b>      | <b>Basic of surveying</b>        | <b>05</b>                |
| <b>2.</b>      | <b>Theodolite survey</b>         | <b>03</b>                |
| <b>3.</b>      | <b>Trigonometrical Surveying</b> | <b>02</b>                |
| <b>4.</b>      | <b>Total Students Survey</b>     | <b>04</b>                |

|    |  |    |
|----|--|----|
| 5. | Introduction To Global Positioning System                    | 05 |
| 6. | Road Survey using GPS  | 03 |
| 7. | Application Of GPS in Surveying and Navigation               | 05 |
| 8. | Measuring area using total station topographical survey data | 03 |

|   |  |                           |
|---|--|---------------------------|
|  | <b>J.S. University, Shikohabad</b><br><b>Faculty of Arts</b> | <b>Value Added Course</b> |
|   |  | AY: 2020-2021             |

## Syllabus Outline

### 1. Module-1

#### Basic of Surveying

- Surveying Level
- Benchmark
- Contour Interval

### 2. Module-2

#### Theodolite Survey

- Theodolite Significant
- Vitality Components of Theodolite

### 3. Module-3


#### Trigonometrical Surveying

- Calculation Of height using leveling

### 4. Module-4

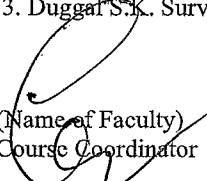
#### Total Station Survey

Basic principal and function of total station

|   |   |                    |
|---|---|--------------------|
|  | J.S. University, Shikohabad<br>Faculty of Art | Value Added Course |
|   |   | AY: 2020-2021      |

**References:-**

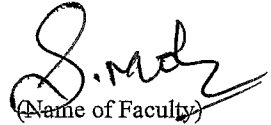
1. Bask.N.N(1994): Surveying AND LEVELING Tata M>C. Grew Hill Publishing company ltd. New Delhi.
2. Davis peter,(1974): Science in geography data description vol.3.Oxford University press London.
3. Duggal S.K. Surveying. Vol. i&ii by Tata mc grow hill book co.

  
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