

## **Engineering Practices in Civil**

Name of the Program	of the Program Duration Documents (Topic Covered in re					
		is Curriculum)				
Engineering Practices in Civil	33 Hours	List of the students enrolled(with signature of students)	1			
		Model certificates	2-4			
		Reports showing assessment Procedures and Curriculum	5-8			

<sup>\*</sup>Topic Covered in report is Curriculum

Baba Farid College of Engineering & Technology (Attendance Register)
Programme/Semester: B.Tech. Civil Engineering /4th, 6th Semester
Teacher Name: Er. Rajan Vinayak, Assistant Professor

Course Code: CC\_EPC

Certificate Course : Engineering Practices in Civil (Lab)

n: 2021-22 (EVEN SEN Name Wani Shahid Shakeel IRFAN MAQBOOL SHEIK Akeel ahmad bhat YAWAR AMIN WANI Faizan Ali Sufaiya Ashraf Lallawmsanga Fc Zothanliana Zoramthara Benjamin Lalfanmawia Mohd Mubssar Zairemmawii	UIE 20730  IVA 20730  20730  20730  20730  20730  20730  20730  20730	153 4ti 149 4ti 147 4ti 141 4ti 142 4ti 154 4th	h PRESE	ENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT ABSE	SENT PRESI ENT PRESI SENT PRESI SENT PRESI	SENT PRESE SENT PRESE SENT PRESE	ENT PRESE ENT PRESE ENT ABSE	ENT ABSENT	T PRESENT	PRESEN	PRESEN	22 06-05-2: IT PRESENT	PRESENT	ABSENT	2 16-05-2 T PRESENT	2 20-05-2 I PRESEN							13-06-22 PRESENT		DELIVERED 44	TOTA 38	L %age 86.36	Signature of stude
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Sr. No.CE/2021-22/EVEN/CC/EPC/001

# BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY

Muktsar Road, Bathinda, Punjab (India)

(Approved by AICTE & Affiliated to Maharaja Ranjit Singh Punjab Technical University, Bathinda)

## **CERTIFICATE OF COMPLETION**

This is to certify that Ms./Mr. Wani Shahid Shakeel UID 2073053 Program B Tech Civil Engineering, Semester 4th has successfully completed certificate course on "Engineering Practices in Civil" which was organized by Department of Civil Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (EVEN Semester).

Bathinda, Punjab(India)

Er. Rajan Vinayak Course Coordinator Department of CE

Rajan Vinargat



Er. Tanu Head Department of CE Sr. No.CE/2021-22/EVEN/CC/EPC/002

# BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY

Muktsar Road, Bathinda, Punjab (India)

(Approved by AICTE & Affiliated to Maharaja Ranjit Singh Punjab Technical University, Bathinda)

## **CERTIFICATE OF COMPLETION**

This is to certify that Ms./Mr. Irfan Maqbool Sheikh UID 2073049 Program B Tech Civil Engineering, Semester 4th has successfully completed certificate course on "Engineering Practices in Civil" which was organized by Department of Civil Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (EVEN Semester).

Bathinda, Punjab(India)

Rajan Vinagat

Er. Rajan Vinayak Course Coordinator Department of CE



Er. Tanu Head Department of CE Sr. No.CE/2021-22/EVEN/CC/EPC/003

# BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY

Muktsar Road, Bathinda, Punjab (India)

(Approved by AICTE & Affiliated to Maharaja Ranjit Singh Punjab Technical University, Bathinda)

## **CERTIFICATE OF COMPLETION**

This is to certify that Ms./Mr. Akeel ahmad bhat UID 2073047 Program B Tech Civil Engineering, Semester 4th has successfully completed certificate course on "Engineering Practices in Civil" which was organized by Department of Civil Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (EVEN Semester).

Er. Rajan Vinayak Course Coordinator Department of CE

Rajan Vinargat



Er. Tanu Head Department of CE



### Report

#### on

### **Engineering Practices in Civil**

Eligible Students: B.Tech. 4<sup>th</sup> & 6<sup>th</sup> Semester

**Date:** 25-03-2022 to 17-06-2022

**Duration of Course:** 33 Hours

**Course Code:** CC\_EPC

No. of students Enrolled: 40

**Timing:** 01.50-03.20

Days: Monday & Friday

Course Coordinator: Er. Rajan Vinayak, Assistant Professor (CE)

The Engineering Practices in Civil course covered various aspects of surveying and construction, focusing on the use of total station instruments, bar bending schedules (BBS), and quantity surveying of building materials. The course aimed to provide students with the necessary knowledge and skills required in the surveying industry, including theoretical and practical aspects of total station operation, BBS preparation, and material quantity calculations.

This course proved to be an effective platform for students to acquire practical skills and knowledge related to surveying, total station instruments, bar bending schedules, and quantity surveying of building materials. Overall, the course received positive feedback from students, and 38 out of 40 participants received certificates for successfully completing the program.

#### **Teaching Pedagogy:**

The course began with an introduction to surveying methods, principles, and basic trigonometry functions for distance and angular measurements. Students learned about coordinate systems, units of measurement, and the establishment of survey control points. The theoretical aspects of total station instruments were covered, including their components, working principles, advantages, and limitations. Practical sessions focused on familiarizing students with the machine parts, instrument handling, machine setup, job and station setup, traversing techniques, and detailed surveys. The theoretical aspects of bar bending schedules and the calculation of bar



length, weight, and numbers were also taught. Additionally, methods for calculating material volume and analyzing rates of different building materials were covered.

#### **Topics Covered:**

The modules covered in this course are as follows:

#### **Module-1: Fundamentals of Surveying (Theoretical Aspects)**

- Introduction to surveying methods and principles.
- Basics of trigonometry functions for distance and angular measurements.
- Understanding coordinate systems and units of measurements.
- Establishing survey control points.

#### **Module-2: Total Station (Theoretical Aspects)**

- Common concepts related to Total Station (EDM).
- How Total Station works and its machine components.
- Exploring the advantages and limitations of Total Station technology.

#### **Module-3: Total Station (Practical Aspects)**

- Familiarization with the different parts of the Total Station machine.
- Handling and operating the Total Station instrument.
- Setting up the Total Station equipment, including leveling, centering, and focusing.
- Job setup, station setup, and orientation techniques.
- Traversing methods (Close and Open).
- Conducting detail surveys using Total Station.

#### **Module-4: Bar Bending Schedule (BBS) (Theoretical Aspects)**

- Preparation of Bar Bending Schedule for reinforcement steel.
- Calculation of length, weight, and quantity of bars.

#### **Module-5: Quantity Surveying of Building Materials**

- Methods for calculating the volume of building materials.
- Analysis of rates for different types of building materials.



These modules provide a comprehensive understanding of surveying fundamentals, the practical aspects of using Total Station, preparing Bar Bending Schedules, and conducting quantity surveying for building materials.

#### **Assessment Procedure:**

The students were evaluated throughout the course based on four parameters: Technical Knowledge, Hands-on Practice, Skill Test, and Attendance. Each parameter carried a certain weightage in the overall evaluation.

#### 1. Technical Knowledge in Concerned Field (20 marks):

This parameter measured their theoretical knowledge, conceptual understanding, and ability to apply that knowledge to practical scenarios.

#### 2. Hands-on Practice (10 marks):

Hands-on practice evaluated the student's ability to apply their knowledge in practical situations. It measured their proficiency in utilizing tools, techniques, or software relevant to the course.

#### 3. Skill Test (10 marks):

The skill test assessed the student's competency and proficiency in specific skills related to the course. It focused on practical skills that were essential for the field of study.

#### 4. Attendance (10 marks):

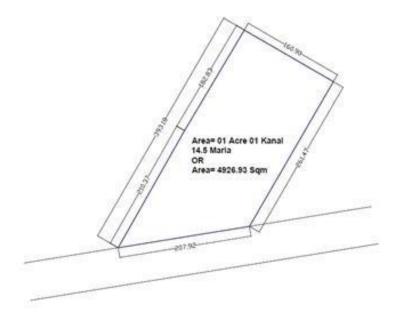
Attendance refers to the student's regular presence in the course. It emphasizes the importance of active participation and consistent engagement throughout the duration of the program.

#### **Outcomes:**

- 1. Students gained the necessary knowledge about the diverse applications of total station technology, enabling them to apply it effectively in various surveying tasks.
- 2. Through practical training, students learned how to conduct accurate field surveys using total station techniques.
- 3. Students gained an in-depth understanding of the functions and components of total station equipment and became proficient in setting up the equipment using techniques such as centering, leveling, and focusing.
- 4. They learned how to calculate the quantities of various building materials needed for construction purposes.



5. Students were provided with coordinate files for AutoCAD software, allowing them to create maps, measure distances, and calculate areas accurately. They successfully utilized this data to determine the dimensions of existing buildings on the college campus.



Dimensions of Existing Buildings on the College Campus in AUTOCAD software