

### Survey form to assess the level of attainment of program outcomes – Graduating Students

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<b>I will be able to:</b>						
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.					✓
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.					✓
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental Considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.					✓
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.					✓
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.					✓
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.					✓
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.					✓
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.					✓
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.					✓
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Government Job

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

### Survey form to assess the level of attainment of program outcomes – Graduating Students

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Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<b>I will be able to:</b>						
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.					✓
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.					✓
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.					✓
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.					✓
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.					✓
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.					✓
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11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.					✓
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Government Job

(b) Higher education: (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: HARMANJIT SINGH Regd. No.: 101402038

Suggestion, if any: \_\_\_\_\_

## Survey form to assess the level of attainment of student outcomes – Graduating Students

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<i>I will be able to:</i>						
A	An ability to apply knowledge of mathematics, science, and engineering.					✓
B	An ability to design and conduct experiments, as well as to analyze and interpret data.				✓	
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.					✓
D	An ability to function on multidisciplinary teams.					✓
E	An ability to identify, formulate, and solve engineering problems.					✓
F	An understanding of professional and ethical responsibility.					✓
G	An ability to communicate effectively.					✓
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.					✓
I	A recognition of the need for, and an ability to engage in life-long learning.					✓
J	A knowledge of contemporary issues.					✓
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU.? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Government Job

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: HARMANJIT SINGH Regd. No.: 101402038

Suggestion, if any: \_\_\_\_\_



**Survey form to assess the level of attainment of program outcomes**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<i>I will be able to:</i>						
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			/		
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.				/	
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental Considerations.			/		
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			/		
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				/	
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				/	
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				/	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			/		
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.				/	
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11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			/		
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			/		

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable

(a) Employment (give details like employer name). Govt. job

(b) Higher education: (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Amaldeep Singh

Suggestion, if any: \_\_\_\_\_ Regd No.: 101402014



## Survey form to assess the level of attainment of student outcomes – Graduating Students

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
A	An ability to apply knowledge of mathematics, science, and engineering.				✓	
B	An ability to design and conduct experiments, as well as to analyze and interpret data.					✓
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				✓	
D	An ability to function on multidisciplinary teams.				✓	
E	An ability to identify, formulate, and solve engineering problems.				✓	
F	An understanding of professional and ethical responsibility.					
G	An ability to communicate effectively.					
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.					✓
I	A recognition of the need for, and an ability to engage in life-long learning.				✓	
J	A knowledge of contemporary issues.					✓
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU.? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Govt. job

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Anmoldeep Singh Regd. No.: 101402014

Suggestion, if any: \_\_\_\_\_

**Survey form to assess the level of attainment of program outcomes - Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer Questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<b>I will be able to:</b>						
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			✓		
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental Considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			✓		
5	Create, select, and apply appropriate techniques, resources, and modern engineering, and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				✓	
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.				✓	
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				✓	
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12	Recognize the need for, and have the preparation and ability to engage in independent and life long learning in the broadest context of technological change.				✓	

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable  
 (a) Employment (give details like employer name) \_\_\_\_\_

(b) Higher education (give the title of degree) \_\_\_\_\_

BE Civil

(c) Entrepreneur (specify) \_\_\_\_\_

Student Name

Ashika Singh

Roll No

10110206

Suggestion, if any \_\_\_\_\_

**Survey form to assess the level of attainment of student outcomes – Graduating Students**

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Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
	1	2	3	4	5
<i>I will be able to:</i>					
A An ability to apply knowledge of mathematics, science, and engineering.			✓		
B An ability to design and conduct experiments, as well as to analyze and interpret data.			✓		
C An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.			✓		
D An ability to function on multidisciplinary teams.			✓		
E An ability to identify, formulate, and solve engineering problems.					✓
F An understanding of professional and ethical responsibility.					✓
G An ability to communicate effectively.					✓
H The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.					✓
I A recognition of the need for, and an ability to engage in life-long learning.					✓
J A knowledge of contemporary issues.					✓
K An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU.? Tick (✓) whichever is applicable

- (a) Employment (give details like employer name): \_\_\_\_\_
  - (b) Higher education (give the title of degree): B.E. Civil
  - (c) Entrepreneur (specify): \_\_\_\_\_
- Student Name: Acharya Gaur Regd. No.: 101402006  
 Suggestion, if any: \_\_\_\_\_



**Survey form to assess the level of attainment of student outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitude) that students develop during the course of study). The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<i>I will be able to:</i>						
A	An ability to apply knowledge of mathematics, science, and engineering.				✓	
B	An ability to design and conduct experiments, as well as to analyze and interpret data.				✓	
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.			✓		
D	An ability to function on multidisciplinary teams.					✓
E	An ability to identify, formulate, and solve engineering problems.				✓	
F	An understanding of professional and ethical responsibility.					✓
G	An ability to communicate effectively.					✓
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.				✓	
I	A recognition of the need for, and an ability to engage in life-long learning.					✓
J	A knowledge of contemporary issues.					✓
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Government Job

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Bishandab Singh Regd. No.: 101402023

Suggestion, if any: \_\_\_\_\_

**Graduating Students**

pass the level of attainment of program outcomes (the knowledge, skills and attitudes of study). The students of graduating class are required to answer the questions as shown. They have achieved the student outcomes set for the program. Please answer the questions in the table below. 1 indicates great deal of achievement.

Engineering has been designed with certain program outcomes (the knowledge, skills and attitudes of study). The students of graduating class are required to answer the questions as shown. They have achieved the student outcomes set for the program. Please answer the questions in the table below. 1 indicates great deal of achievement.

Survey questions	Level of attainment (answer on a scale of 1 to 5)				
	1	2	3	4	5
Review research literature and analyze complex engineering problems and design systems using appropriate engineering methods with appropriate safety and health and the cultural, societal, and environmental impacts.				<input checked="" type="checkbox"/>	
Apply appropriate techniques, resources, and modern tools including prediction and modeling to complex design problems to assess societal, health, safety, and environmental impacts, and the need for a solution.				<input checked="" type="checkbox"/>	
Identify, formulate, and solve complex engineering problems.				<input checked="" type="checkbox"/>	
Conduct investigations of complex problems that include design, analysis, synthesis, and evaluation.				<input checked="" type="checkbox"/>	
Design a solution to a complex engineering problem that meets specified requirements.				<input checked="" type="checkbox"/>	
Apply engineering design to produce solutions that meet specified needs and constraints such as cost, safety, reliability, manufacturability, and sustainability.				<input checked="" type="checkbox"/>	
Use modern engineering tools and techniques for engineering design.				<input checked="" type="checkbox"/>	
Communicate effectively in written, oral, and graphical form, including reports, presentations, and technical drawings.				<input checked="" type="checkbox"/>	
Recognize and understand the engineering profession and its impact on society.				<input checked="" type="checkbox"/>	
Engage in lifelong learning and use current techniques, skills, and knowledge to enhance their educational and professional development.				<input checked="" type="checkbox"/>	

1. The title of degree: Master of Science  
 2. The title of employer: Government Job  
 Regd No: 101462023





### Survey form to assess the level of attainment of program outcomes – Graduating Students

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<i>I will be able to:</i>						
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.				/	
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental Considerations.			/		
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			/		
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.					/
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.					/
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				/	
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.					/
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.					/
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.					/
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					/

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Government Job

(b) Higher education: (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Yatin Malhotra

Regd No.: 101402116

Suggestion, if any: \_\_\_\_\_



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**Survey form to assess the level of attainment of student outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain student outcomes, (the knowledge, skills and attitudes) that students develop during the course of study. The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	I will be able to:					
A	An ability to apply knowledge of mathematics, science, and engineering.				✓	
B	An ability to design and conduct experiments, as well as to analyze and interpret data.				✓	
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				✓	
D	An ability to function on multidisciplinary teams.				✓	
E	An ability to identify, formulate, and solve engineering problems.				✓	
F	An understanding of professional and ethical responsibility.				✓	
G	An ability to communicate effectively.				✓	
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.				✓	
I	A recognition of the need for, and an ability to engage in life-long learning.				✓	
J	A knowledge of contemporary issues.				✓	
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.				✓	

What do you plan to do after graduation at TU? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Government job

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (Specify): \_\_\_\_\_

Student Name: Srinjayit Singh Regd. No.: 101402104

Suggestion, if any: \_\_\_\_\_

**Survey form to assess the level of attainment of program outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and ability that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first-principles of mathematics, natural sciences, and engineering sciences.				✓	
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			✓		
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5	Create, select, and apply appropriate techniques, resources, and modern engineering, and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.		✓			
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9	Function effectively as an individual, and as a member of leader in diverse teams, and in multidisciplinary settings.					✓
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			✓		
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable  
 (a) Entrepreneurship (give details like employer name): Govt job

(b) Higher education: (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Abhishek Regd No: 1014020014

Suggestion, if any: Value education will be helpful for students if the curriculum gives academic knowledge. Also, government should give more jobs for them. Students should be trained in their operations and other extra skills.

**Survey form to assess the level of attainment of student outcomes - graduating students**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitudes in this form to assess how well they judge they have attained) that are intended to ensure the graduates are prepared for the profession. Please indicate your question on a scale of 1 to 5 where 1 indicates the lowest level of attainment and 5 indicates the highest level of attainment.

**Survey questionnaire**

I will be able to:	Level of attainment (attainment in a scale of 1 to 5)				
	1	2	3	4	5
A An ability to apply knowledge of mathematics, science and engineering				<input checked="" type="checkbox"/>	
B An ability to design and conduct experiments, as well as to analyze and interpret data.				<input checked="" type="checkbox"/>	
C An ability to design a system, component, or process to meet specified needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				<input checked="" type="checkbox"/>	
D An ability to function on multidisciplinary teams.				<input checked="" type="checkbox"/>	
E An ability to identify, formulate, and solve engineering problems.				<input checked="" type="checkbox"/>	
F An understanding of professional and ethical responsibility.				<input checked="" type="checkbox"/>	
G An ability to communicate effectively.				<input checked="" type="checkbox"/>	
H The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.				<input checked="" type="checkbox"/>	
I A recognition of the need for and an ability to engage in lifelong learning.				<input checked="" type="checkbox"/>	
J A knowledge of contemporary issues.				<input checked="" type="checkbox"/>	
K An ability to use the techniques, skills and modern engineering tools necessary for engineering practice.				<input checked="" type="checkbox"/>	

What do you plan to do after graduation at TU ? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): \_\_\_\_\_

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Ashwin S D Roll No: 19010101010101010101 Page No: 1

Suggestion, if any: \_\_\_\_\_



The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitudes) that students develop during the course of study. The students of graduating class are requested to answer the questionnaire (in this form) to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.				✓	
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5	Create, select, and apply appropriate techniques, resources, and modern engineering, and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				✓	
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9	Function effectively as an individual, and as a member of leader in diverse teams, and in multidisciplinary settings.				✓	
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				✓	
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.				✓	

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable  
 (a) Employment: (give details like employer name): \_\_\_\_\_

(b) Higher education: (give the title of degree): ME  
 (c) Entrepreneur (specify): \_\_\_\_\_  
 Student Name: Aradhya Sehgal  
 Suggestion, if any: \_\_\_\_\_  
 Regd No.: 1019022068

**Survey form to assess the level of attainment of student outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<i>I will be able to:</i>						
A	An ability to apply knowledge of mathematics, science, and engineering.				✓	
B	An ability to design and conduct experiments, as well as to analyze and interpret data.				✓	
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				✓	
D	An ability to function on multidisciplinary teams.				✓	
E	An ability to identify, formulate, and solve engineering problems.			✓		
F	An understanding of professional and ethical responsibility.				✓	
G	An ability to communicate effectively.			✓		
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.					✓
I	A recognition of the need for, and an ability to engage in life-long learning.					✓
J	A knowledge of contemporary issues.					✓
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): NA

(b) Higher education (give the title of degree): M.E.

(c) Entrepreneur (specify): NA

Student Name: Pranav Singh Regd. No.: 101402069

Suggestion, if any: \_\_\_\_\_

The program of BE Civil Engineering has been designed with certain program outcomes. The knowledge, skills and ability of students developed during the course of study. The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill and 5 indicates great level of achievement.

Survey questionnaire

	I will be able to:	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.				✓	
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5	Choose, subject, and apply appropriate techniques, resources, and modern engineering software and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				✓	
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9	Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.				✓	
10	Communicate effectively on complex engineering activities with the community and with society at large, such as being able to conduct research, contribute to the society and design development, write computer code and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				✓	
11	Manage projects, resources and understanding of the engineering and management principles and apply these to one's own work, as a leader and member in a team, to manage projects and in multidisciplinary environments.				✓	
12	Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

Final the form for the other questionnaire of the 17 form is attached in the separate sheet.

1. Program objectives: (copy the title of program objectives from the syllabus) **BE Civil Engineering**

2. Program outcomes: (copy the title of program objectives from the syllabus) **BE Civil Engineering**

3. Program outcomes: (copy the title of program objectives from the syllabus) **BE Civil Engineering**

4. Program outcomes: (copy the title of program objectives from the syllabus) **BE Civil Engineering**

**Survey form to assess the level of attainment of program outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.				✓	
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				✓	
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9	Function effectively as an individual, and as a member of leader in diverse teams, and in multidisciplinary settings.				✓	
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				✓	
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.				✓	

What do you plan to do after graduation at TLET? Tick (✓) whichever is applicable  
 (a) Employment (give details like employer name): ✓ Mawan Shakti Padiy Limited

(b) Higher education: (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (Specify): \_\_\_\_\_  
 Student Name: Shubham Nandan Regd No: 01462013  
 Suggestion, if any: More projects

**Survey form to assess the level of attainment of student outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement of skill and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
I will be able to:						
A	An ability to apply knowledge of mathematics, science, and engineering.				<input checked="" type="checkbox"/>	
B	An ability to design and conduct experiments, as well as to analyze and interpret data.				<input checked="" type="checkbox"/>	
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				<input checked="" type="checkbox"/>	
D	An ability to function on multidisciplinary teams.				<input checked="" type="checkbox"/>	
E	An ability to identify, formulate, and solve engineering problems.				<input checked="" type="checkbox"/>	
F	An understanding of professional and ethical responsibility.				<input checked="" type="checkbox"/>	
G	An ability to communicate effectively.				<input checked="" type="checkbox"/>	
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.				<input checked="" type="checkbox"/>	
I	A recognition of the need for, and an ability to engage in life-long learning.				<input checked="" type="checkbox"/>	
J	A knowledge of contemporary issues.				<input checked="" type="checkbox"/>	
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.				<input checked="" type="checkbox"/>	

What do you plan to do after graduation at TU? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): MSIL

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Shubham Chakravarti Regd. No.: 101402092

Suggestion, if any: more projects



The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	I will be able to:					
A	An ability to apply knowledge of mathematics, science, and engineering.				✓	
B	An ability to design and conduct experiments, as well as to analyze and interpret data.				✓	
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				✓	
D	An ability to function on multidisciplinary teams.					✓
E	An ability to identify, formulate, and solve engineering problems.					✓
F	An understanding of professional and ethical responsibility.					✓
G	An ability to communicate effectively.					✓
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.					✓
I	A recognition of the need for, and an ability to engage in life-long learning.					✓
J	A knowledge of contemporary issues.				✓	
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): Tejraj & Co. Pvt. Ltd. Bangalore

(b) Higher education (give the title of degree): Junior Engineer.

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: AKSH KANSAL Regd. No.: 101582002

Suggestion, if any: Projects should be better planned and importance

throughout the project

**Survey form to assess the level of attainment of student outcomes – Graduation**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire give in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
A	An ability to apply knowledge of mathematics, science, and engineering.			✓		
B	An ability to design and conduct experiments, as well as to analyze and interpret data.			✓		
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.				✓	
D	An ability to function on multidisciplinary teams.			✓		
E	An ability to identify, formulate, and solve engineering problems.			✓		
F	An understanding of professional and ethical responsibility.					✓
G	An ability to communicate effectively.				✓	
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.				✓	
I	A recognition of the need for, and an ability to engage in life-long learning.			✓		
J	A knowledge of contemporary issues.					✓
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU? Tick (✓) whichever is applicable

(a) Employment (give details like employer name): \_\_\_\_\_

(b) Higher education (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Nishal Singh Regd. No.: 101402111

Suggestion, if any: \_\_\_\_\_

**Survey form to assess the level of attainment of student outcomes – Graduating Student**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills, and attitudes) that students develop during the course of study. The students of graduating class are requested to answer the questions in this form to assess how well they judge they have attained the student outcomes set for the program. The questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

**Survey questionnaire**

	Level of attainment (answer on a scale of 1 to 5)		
	1	2	3
I will be able to:			
A An ability to apply knowledge of mathematics, science, and engineering.			
B An ability to design and conduct experiments, as well as to analyze and interpret data.			
C An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.			
D An ability to function on multidisciplinary teams.			
E An ability to identify, formulate, and solve engineering problems.			
F An understanding of professional and ethical responsibility.			
G An ability to communicate effectively.			
H The broad education necessary to understand the impact of engineering solutions in a global economic, environmental, and societal context.			
I A recognition of the need for, and an ability to engage in, lifelong learning.			
J A knowledge of contemporary issues.			
K An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.			

When do you plan to do other graduation at TU? ( )  
 ( )  
 ( )  
 ( )  
 ( )

**Survey form to assess the level of attainment of program outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			✓		
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			✓		
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			✓		
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.				✓	
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				✓	
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable

(a) Employment: (give details like employer name), \_\_\_\_\_

(b) Higher education: (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (specify): \_\_\_\_\_

Student Name: Mehi Kana

Regd No.: 101582013

Suggestion, if any: \_\_\_\_\_

**Survey form to assess the level of attainment of program outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitudes that students develop during the course of study). The students of graduating class are requested to answer the questionnaire (in this form) to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			✓		
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			✓		
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				✓	
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.					✓
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.			✓		
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9	Function effectively as an individual, and as a member of leader in diverse teams, and in multidisciplinary settings.					✓
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.					✓
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable  
 ✓ Employment (give details like employer name): Simplex Infrastructure

(b) Higher education: (give the title of degree): \_\_\_\_\_

(c) Entrepreneur (Specify): \_\_\_\_\_

Student Name: Hansh Agarwal

Suggestion, if any: None

Regd No: 101402040



The student must be able to apply the knowledge of mathematics, science, and engineering to solve problems in a global, economic, environmental, and societal context.

Learning Objectives

- 1. Ability to apply knowledge of mathematics, science, and engineering to solve problems in a global, economic, environmental, and societal context.
- 2. Ability to design and conduct experiments, analyze data, and draw conclusions.
- 3. Ability to identify, formulate, and solve engineering problems.
- 4. Understanding of professional and ethical responsibility.
- 5. Ability to communicate effectively.
- 6. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- 7. A recognition of the need for, and an ability to engage in life-long learning.
- 8. A knowledge of contemporary issues.
- 9. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

...to be able to do after graduation at TU-7-Tick (V) with the ability to apply the knowledge of mathematics, science, and engineering to solve problems in a global, economic, environmental, and societal context.



**Survey form to assess the level of attainment of program outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitude students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
	1	2	3	4	5
<i>I will be able to:</i>					
1 Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.					✓
2 Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.				✓	
3 Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4 Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5 Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				✓	
6 Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7 Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			✓		
8 Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9 Function effectively as an individual, and as a member of leader in diverse teams, and in multidisciplinary settings.				✓	
10 Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				✓	
11 Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12 Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable  
 (a) Employment (give details like employer name): \_\_\_\_\_

(b) Higher education: (give the title of degree): Master  
 (c) Entrepreneur (specify): \_\_\_\_\_  
 Student Name: Husyat Singh Regd No.: 101402037  
 Suggestion, if any: \_\_\_\_\_

**Survey form to assess the level of attainment of program outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

I will be able to:	Level of attainment (answer on a scale of 1 to 5)				
	1	2	3	4	5
1 Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2 Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.				✓	
3 Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.				✓	
4 Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5 Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				✓	
6 Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				✓	
7 Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.				✓	
8 Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9 Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.				✓	
10 Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				✓	
11 Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12 Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.				✓	

What do you plan to do after graduation at TLET? Tick (✓) whichever is applicable  
 (a) Employment: (give details like employer name): \_\_\_\_\_

(b) Higher education: (give the title of degree): Mech EITD

(c) Entrepreneur (specify): \_\_\_\_\_  
 Student Name: Caridawhen Silva Regd No: 0142033  
 Suggestion, if any: \_\_\_\_\_

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**Survey form to assess the level of attainment of program outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain program outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire. In this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

	Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
	<i>I will be able to:</i>					
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.					✓
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first-principles of mathematics, natural sciences, and engineering sciences.					✓
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.					✓
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.					✓
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.					✓
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.					✓
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.					✓
8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.					✓
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.					✓
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.					✓
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.					✓
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.					✓

What do you plan to do after graduation at TIET? Tick (✓) whichever is applicable  
 (a) Employment (give details like employer name): \_\_\_\_\_

(b) Higher education: (give the title of degree): Master's

(c) Entrepreneur (specify): \_\_\_\_\_  
 Student Name: Faisal Rashid Sheikh Regd No: 161402029  
 Suggestion, if any: \_\_\_\_\_

**Survey form to assess the level of attainment of student outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitude that students develop during the course of study). The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire		Level of attainment (answer on a scale of 1 to 5)				
		1	2	3	4	5
<i>I will be able to:</i>						
A	An ability to apply knowledge of mathematics, science, and engineering.					✓
B	An ability to design and conduct experiments, as well as to analyze and interpret data.					✓
C	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.					✓
D	An ability to function on multidisciplinary teams.					✓
E	An ability to identify, formulate, and solve engineering problems.					✓
F	An understanding of professional and ethical responsibility.					✓
G	An ability to communicate effectively.					✓
H	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.					✓
I	A recognition of the need for, and an ability to engage in life-long learning.					✓
J	A knowledge of contemporary issues.					✓
K	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at TU? Tick (✓) whichever is applicable  
 (a) Employment (give details like employer name): \_\_\_\_\_

(b) Higher education (give the title of degree): Master's  
 (c) Entrepreneur (specify): \_\_\_\_\_  
 Student Name: Fawad Raashid Sheikh Regd. No.: 101402029  
 Suggestion, if any: \_\_\_\_\_



Survey form to assess the level of attainment of program outcomes - Graduating Students

The program of the Civil Engineering has been designed to achieve program outcomes that students will attain by the end of their course of study. The students of graduating class are requested to answer the questionnaire in this form to assess their own level of attainment of the stated outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5, where 1 indicates little or no attainment or skill and 5 indicates great level of attainment.

Survey questionnaire

I will be able to:	Level of attainment (answer on a scale of 1 to 5)				
	1	2	3	4	5
1. Apply the knowledge of mathematics, sciences, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				✓	
2. Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using the principles of mathematics, natural sciences, and engineering sciences.			✓		
3. Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			✓		
4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				✓	
5. Create, select, and apply appropriate techniques, resources, and modern engineering software with an understanding of the benefits and limitations of each.			✓		
6. Apply reasoning skills based on the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			✓		
7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.			✓		
8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.				✓	
9. Function effectively as an individual, and as a member of leader in diverse teams, and in multidisciplinary settings.				✓	
10. Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			✓		
11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				✓	
12. Recognize the need for, and have the preparation and ability to engage in independent and the long-term learning in the broad context of technological change.			✓		

What do you plan to do after graduation at IIT? Tick (✓) whichever is applicable  
 (a) Employment (give details like employer name)  
 (b) Higher education (give the title of degree)  
 (c) Entrepreneur (specify)

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**Survey form to assess the level of attainment of student outcomes – Graduating Students**

The program of BE Civil Engineering has been designed with certain student outcomes (the knowledge, skills and attitudes) that students develop during the course of study. The students of graduating class are requested to answer the questionnaire given in this form to assess how well they judge they have attained the student outcomes set for the program. Please answer the questionnaire on a scale of 1 to 5 where 1 indicates little achievement or skill, and 5 indicates great deal of achievement.

Survey questionnaire	Level of attainment (answer on a scale of 1 to 5)				
	1	2	3	4	5
I will be able to:					
A An ability to apply knowledge of mathematics, science, and engineering.			✓		
B An ability to design and conduct experiments, as well as to analyze and interpret data.				✓	
C An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.			✓		
D An ability to function on multidisciplinary teams.			✓		
E An ability to identify, formulate, and solve engineering problems.				✓	
F An understanding of professional and ethical responsibility.			✓		
G An ability to communicate effectively.					✓
H The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.				✓	
I A recognition of the need for, and an ability to engage in life-long learning.					✓
J A knowledge of contemporary issues.			✓		
K An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					✓

What do you plan to do after graduation at T.U.? Tick (✓) whichever is applicable  
 (a) Employment (give details like employer name): \_\_\_\_\_

(b) Higher education (give the title of degree): Master's

(c) Entrepreneur (specify): \_\_\_\_\_  
 Student Name: Omish Loyed Regd. No.: 101402023  
 Suggestion, if any: \_\_\_\_\_