



# GLOBAL Institute of Engineering & Technology

(Approved by AICTE & Affiliated to JNTU(H))

Survey No. 179, Chilkur (V), Moinabad (M), Ranga Reddy Dist. TS.

Phone: 08417-252233 / 253021

e-mail: principal.giet.u6@gmail.com

JNTUH Code(U6) CIVIL - CSE - MECH - ECE - EEE - MBA - M.Tech. EAMCET Code GLOB

Lr.No: GIET/Principal's Office/Career/001/01/2018-19

Date 19/01/2019

## CIRCULAR

All the students of Civil Engineering Third and Final Year hereby informed that special career guidance coaching is being conducted by Mrs. Sreeja, General Manager SREEJA Technical Services#83 Shanmukh Empire Ayyappa Society, Hitech City Rd, Madhapur, Hyderabad.

In our college premises on 24/1/2019. Hence all are requested to make use of this opportunity and interested students enroll your names to respective class in charges.

Cc to :

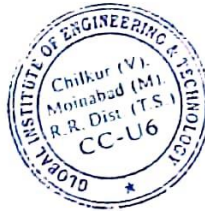
Director- for information

Dy. Director- for information

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CE HOD- for information

Admin Office- for information



  
Principal

PRINCIPAL  
Global Institute of Engg. & Tech  
Chilkur (V), Moinabad (M)  
R. R. Dist



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## Department of Civil Engineering

### INVITATION

Lr. No: Civil /B.Tech/CG/Invite/02/01/2018-19

Date. 05/01/2019

To  
Mrs. SREEJA  
General Manager  
SREEJA Technical Services  
Madhapur, Hyderabad.

**SUB: Invited talk on "Career Options for Civil Engineering Students"**

\*\*\*\*\*

Respected Sir,

We are proud to welcome you as a resource person to deliver an invited talk on "Career Options for Civil Engineering Students", to the pre-final year and final year students of Civil Engineering on 24/01/2019.

Thank you for your time and consideration.

Yours Sincerely,  
Department of Civil Engg.

Global Institute of Engineering and Technology,  
Chilkur (V), Moosabad (M), Ranga Reddy Dist. T.S. - 501 214.



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**Department of Civil Engineering**

Lr. No: Civil/B.Tech/CG/Invite/03/01/2019-18

Date: 19/01/2019

To  
Mrs. SREEJA  
General Manager  
SREEJA Technical Services  
Madhapur, Hyderabad,

**SUB:** Thanking for accepting invitation as a Speaker- Reg.

\*\*\*\*\*

Respected Sir,

We thank you on accepting of our invitation, for delivering lecture on “**Career Options for Civil Engineering Students**”. to the pre-final year and final year students of Civil Engineering on 24/01/2019.

We appreciate the co operation extended by you and hope the similar co operation in future.

Thanking you

HEAD

Department of Civil Engg.

Global Institute of Engineering & Technology  
Chilkur (V), Moinabad(M), R.R. Dist.T.S.-501504.

Yours Sincerely

H.O.D

Department of Civil Engineering,  
Global Institute of Engineering and Technology.



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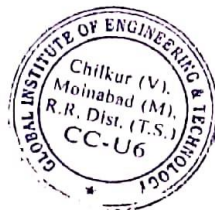
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## Department of Civil Engineering

Academic Year 2018-2019

III YEAR B-TECH		
SL NO	ROLL NO	NAME
1.	14QM1A0177	SHAIK AZAM ALI
2.	14U61A0128	MOHD MOUZAM ALI
3.	15U61A0109	MD DANISH
4.	15U61A0117	MD RIYAZ ALAM
5.	15U61A0123	MOHAMMED SAIF UDDIN
6.	15U61A0130	SHAIK SOHAIB AKHTER
7.	16U61A0101	ABDUL RAZZAQ KHAN
8.	16U61A0103	BORIGAM RAJ KUMAR
9.	16U61A0104	D NAVANEETH REDDY
10.	16U61A0107	DEVASANI SHIVAKRISHNA
11.	16U61A0109	FARUK AHMED
12.	16U61A0113	KHAJA ASLAMUDDIN AHMED
13.	16U61A0115	KONDA DURGA PRASAD
14.	16U61A0116	MAHANKALI AJAY
15.	16U61A0119	MD ASIF AKTAR
16.	16U61A0124	MD SARFARAZ ALAM
17.	16U61A0125	MOHAMMED ABDUL FAIZAN
18.	16U61A0131	MOHAMMED ILIYAZ
19.	16U61A0134	MOHD NASHIT HUSSAIN
20.	16U61A0135	MOHD RAHEEMUDDIN SIDDIQUI
21.	16U61A0139	PABBANI SINDHUJA
22.	16U61A0141	SHAIK ISMAIL
23.	16U61A0146	VUYYURI HYMA
24.	16U61A0147	IMAM ADIL
25.	17U65A0101	BODDU ARANYA
26.	17U65A0102	KONDA RACHANA
27.	17U65A0103	KUSHANAPALLY RAMESH
28.	17U65A0104	MINUMULA BALRAJU
29.	17U65A0105	MUDAVATH SREE KRISHNA
30.	17U65A0107	MUTTANGI MADHAVI KUMARI
31.	17U65A0108	REBBA MAHESH BABU
32.	17U65A0109	ULLI AJAY CHARY



*[Signature]*  
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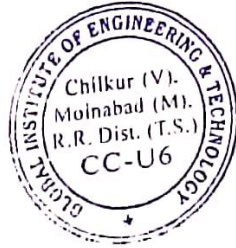
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Department of Civil Engineering

IV YEAR B-TECH		
1	14U61A0121	MOHAMMED SHOAIB
2	15U61A0101	ALIYA BEGUM
3	15U61A0104	HESAMUDDIN KHAN
4	15U61A0106	KHAN RIZWAN AHMED USMAN
5	15U61A0107	KHWAJA AHMED MOHAMMED AMEEN
6	15U61A0108	MD . MUSTAFA
7	15U61A0110	MD DILSHAD
8	15U61A0114	MD JAHIR NAWAJ
9	15U61A0115	MD JAVEED ALI
10	15U61A0118	MODASSAR NAZAR
11	15U61A0121	MOHAMMED NABEEL
12	15U61A0124	MOHD ARIF
13	15U61A0127	MOHD. NAWAZ ANAS
14	15U61A0129	SHAHBAZ ANWAR KHAN
15	16U65A0102	G RAJ KUMAR
16	16U65A0103	GODUGU POOJA
17	16U65A0104	MALTURKAR BHARATH KANNY
18	16U65A0105	MOHAMMED BIN AMER AL MUSALLI
19	16U65A0106	NAYINI PRANAV KUMAR
20	16U65A0107	PUNEM HARISH



  
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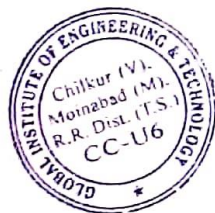
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## Department of Civil Engineering

### REPORT ON

#### Career Counseling

Global Institute of Engineering and Technology had conducted "Career Options for Civil Engineering Students". By Mrs. SREEJA General Manager, SREEJA Technical Services Madhapur, Hyderabad in our college premises on 24/01/2019. Principal introduced the Special guest Mrs. SREEJA and Guest delivered value added speech and suggestion to build excellent life.



*Sreeja*  
PRINCIPAL

Global Institute of Engg. & Tech  
Chilkur (V), Moinabad (M)  
R. R. Dist

## PHOTOGRAPH

Career Counseling and an Entrepreneurship Development Program Special guest Mrs. SREEJA on **Career Options for Civil Engineering Students.**

Students have a lot of decisions to make while they're in college. These range from which courses to take up apart from their core subjects, to deciding which internships would benefit their career. However, the single biggest decision that any college student needs to make revolves around what to do after college. As a matter of fact, almost every other choice that a student makes in college revolves around his/her plans after college, be it studying further or taking up a job. Deciding what to do after college has a significant impact on your immediate future as well as long term goals. This decision gets difficult because there are several factors that impact it, such as interests, costs, opportunities etc. For example, you might realize while pursuing your degree that your true passion lies somewhere else, and you might decide to pursue a career in that field after college. But what if that career requires you to pursue a separate course after your graduation, something that you're not willing to do?

To ensure that you don't make a wrong a decision at this crucial juncture in your life, it helps to consult a Career Counselor. A Career Counselor will guide you through this whole decision making process and will give suggestions that are beneficial for you with regards to whether you should take up a job after college or pursue a postgraduate course.

Additionally, a Career Counselor will also help in developing contingency plans in case things don't work out (not getting admission in the desired course or not getting a job etc.).Not only that, but he/she will also help you make decisions in case you wish to alter your career goals after college. In such scenarios, a Career Counselor will help you decide whether it is worth it to completely change your career focus or not, and if yes, then should you first take up a course in that career or directly apply for a job.

**Our goal is to nurture the talents of the students ,empowering graduates who will flourish and change the world for better.**

If you are a civil engineering student then there is good news for you. India would be requiring 40 lakh civil engineering professionals by 2020. It is a very challenging and tough

course to take up. But if you get through nothing can be better than that, and you can make it big with right skills and specialization. Here in this article we have tried to analyze better career options for civil engineers. Here I enlist you various career scopes after pursuing civil engineering.

**1. Engineering design-** these design professionals are required to draft and model Civil Engineering Projects by using software tools like STAAD Pro, ETABS, Revit Architecture, Safe etc. If you are well acquainted with these software tools you will be preferred by majority of the firms. To improve your employability you need to work on design techniques and have hand on software experience

**2. Construction Materials Engineering-** construction industry is emerging rapidly and they need engineers with expertise in technologies and building materials. Students interested in material development and maintenance have a bend towards this field. Those who have knowledge in multiple construction material and new technologies and have the ability to adopt new technologies are preferred by such companies. Trending sectors include- cement, iron and steel, timber, and heat resistant materials.

**3. Construction Engineering-** It is being estimated that construction industry will grow to around INR 12 Billion by 2017 with a total contribution of about 8.2 per cent to Indian GDP. With amazing career opportunities and employment prospects, civil engineers are being demanded by such construction industries. You need to have a strong hold on the following-domain knowledge. CAD drawings and basic knowledge of trade work like masonry and machining. If you have knowledge of common structural rules and pre- fabrication it will be quite helpful and beneficial for you.

**4. Surveying-** For land surveying work you need to possess the passion for it, a relevant field experience with Total Station Equipment. You need to have a strong hold over mathematics. The surveying profession always has provided consistent employment chances for Indian graduates. Field experience can increase your chances of getting into the job.

**5. Transportation Engineering-** This could be the right career option for you if you are really interested to know how people and vehicles move smoothly and safely. In this field of work you will have to design transportation systems keeping in mind people/vehicle behavior. A report of NSDC shows that road and rail construction projects are expected to double their employment base by 2022. This is ought to happen because Indian transportation network is undergoing major up gradation, hence skilled transportation engineers will be in demand.

**6. Construction Management-** This is the highest paid Civil Engineering career. A work cannot be completed without construction project manager, hence they are the highest paid. You need to be equipped with software tools like Primavera and MS Project with basic project

management skills and relevant field experience.

**7. Building Information Modelling-** BIM provides a 3D digital interface for building design and is a very promising technology. It has received wide acceptance all across the world, USA has even made it compulsory. Revit Architecture is incorporated as a BIM tool in India. BIM is an excellent career option because it is expected to soon emerge and become an industry standard.

The above mentioned seven careers are by far the best choice for Civil Engineering students. Apart from these, there are many other interesting options like 3D printing in construction, architectural engineering, green buildings, timber engineering, construction robots/ drones and even research work. So it is up to you what you want to do as an engineer- go for the field that excites you and helps in developing your skills accordingly.

If you are a student of civil engineering you might have heard a lot about your field. But as the sources have increased, the volume of information has also increased which may make you a bit confused about what to choose and what to let go. If you are wondering about your career choice and what options are available for civil engineering field, then your worry stops here. In this guide, you will find most of your answers that you have been searching for long enough along with careers directions which will help you choose a path **which suits you best**

In this career guide, you will find the *basic foundations of what civil engineering* is all about; where you should begin (the first steps which will help you design your career path); how to *get placed* by on campus or off campus interviews; how would you know which company suits you best; the *best companies to work* for in civil engineering; *skill sets* needed to achieve excellence in your career; how much *honorarium* you can expect from a job in civil engineering field when you are just starting out; and last but not least the *higher education opportunities* available for civil engineers.

### **How do we define Civil Engineering?**

For students who have already passed out from civil engineering, this section may seem irrelevant. But the reason we added this section is to give a career brief about civil engineering so that you can most succinctly connect your career choice with the rest of the sections. And this section is also useful for students who have just opted for civil engineering course but have a bit apprehensive about how their career will unfold.

Civil Engineering is a field of builders. So, if you are among those who love to create, build, make and pursue big projects, civil engineering is for you. This is one of the

traditional fields of engineering which teaches students about the construction and design of bridges, tunnels, roads, airports, docks, railroads, power supply systems, dams, harbours, water supply-sewage systems.

If you are planning to pursue your career in civil engineering, you have multiple options. Because, top-class civil engineers can choose areas like construction engineering, hydraulic and irrigation engineering, geo-technical engineering, public work engineering, transportation engineering and environmental engineering. The basic thing for you to understand is that you would be in a profession of building homes and other related projects that help a large number of people ease up their daily journey of life.

### **Where to start your career?**

As you are aspiring to become builders of future hope of public or the beneficiaries who would be using your services, you need to be very detail oriented and thorough. The remarkable ability to be meticulous and understand how project works will help you immensely in learning the core factors of civil engineering.

Start with the renowned civil engineers who have built stuffs. Read magazines on engineering application and how critical problems can be solved. As civil engineers you need to work both on the site and in the office. And almost daily you need to handle laborers and office staffs and moreover clients who would be asking you different questions. To be efficient at that you need to meet every person from every walks of life and try to decipher how they think.

Another critical factor in civil engineering is the ability to handle contingencies. Almost daily you may go out of your budget or else you need to work under several constraints like limited number of workers, average cost of the project, limited working capital for the operations, very limited time to complete a portion of the big project you or your company have undertaken and so on and so forth. Thus, you need to make a practice of making a back-up plan for everything that you undertake now on. It will help you build confidence over time and when the time of crisis will come in actual job, then you will be able to handle it very effectively.

### **How to get recruited during Campus or off Campus Recruitment?**

To get well placed during on-campus interview you need to keep in mind what your potential employers are trying to search for in a possible employee when they are scrolling through the series of application. Make a list of five things you feel the companies are looking for and then start preparing.

First thing you need to prepare for is your general knowledge in civil engineering. If you foundations are strong enough and you can connect one concept with another in your mind, then the half of the battle is already won.

Next you should consider preparing for aptitude, mathematics, physics and design structures. The employers may ask you to prepare a design at a later stage of the interview to see how efficient you are in drawing a big project without any outside help. It all boils down to how you think and how you can connect the dots of all your learning.

By any means if you are not able to get placed in on-campus (which is rare if you follow the above steps), then you can go out and apply in the companies you want to work for. In that case you have a choice to apply for certain positions you are interested in. Always remember that it always helps to know more than the every other person. Read, learn, apply and express. There is nothing you cannot achieve if you are willing and motivated.

### **Job profile of Civil Engineer**

In later section, we will discuss about the top companies you can work for, but an entry in top companies won't ensure that you would be able to achieve a bright career. What will make you tick is choosing the right specialization in civil engineering.

Now, you have two options – contracting civil engineer and consultant civil engineer. You can choose to work whichever suits you best. In contracting engineering, you need to be both at office and on site. This is typically hard as you need to manage both, peers at office and labourers at on site. But in consultant civil engineering, you need to be mostly in office and you would advise your clients and other engineers for proper execution of project.

Other than the above classification, there are also structural civil engineers who design oil-rigs, office blocks or car-parking slots to ensure that the structures are being defined well before the actual construction begins. There are also options for water management engineers who take care of the water sewage systems and highway engineers who get the roads, highway done in time and they generally work for offering convenience to general public.

From the above options, if you have to choose one, don't just decide by logic. Just go about every section and try to match where you feel most passionate. And then see whether you have those skills required to succeed or not. For example, if you choose structural engineering, then you should be well versed in drawing. If you have a general knack for drawing, you can design well by few years of practice.

### **Top Companies which offer jobs for Civil Engineers**

There are lot of top-notch companies where civil engineers can work and grow multi-fold. The top ten companies in the world where best civil engineers most prefer to work are –

- Mace Limited
- Morgan Sindall
- Kier
- Skanska

- Mott MacDonald
- Amey
- Costain
- Galliford Try
- Laing O'Rourke
- AECOM Ltd.

But if you are wondering about the top civil engineering companies in India, then the following list will help you.

- GMR
- Hindustan Motors Limited
- GVK
- Jindal Steel
- Simplex Infrastructures
- SOMA
- Mahindra & Mahindra
- Tata Steel
- Martin Burn Ltd.
- Toyo Engineering
- AFCONS

### **Skill sets required for getting jobs in Civil Engineering**

The basic skills which are required for cracking civil engineering jobs are few in numbers, but if one can master these skills, then the future potential are amazing. It all starts off taking care of the foundational knowledge you need to have about your civil engineering subjects.

Are you good in solving critical problems?

Are you prudent enough about the slight change in the design you need to make in order to minimize the cost and maximize the benefit of the client?

Even if you are not an employee, right now, along with the foundational knowledge you need to hone your thinking skill about diverse situations.

Next is the ability to design. How good you are? If you feel you are good enough can you present a rough draft of the design within an hour of asking? If so, then you would face no problems in cracking interviews, but if not then you need to practice designing and thinking through about several designs and how you can make them tick. In simple term, you need to keep everything under your sleeve before even trying to get any civil engineering jobs.

The final skill which is of utter importance is the ability to manage crisis. Under varied constraints and emergency situation, you need to be sagacious enough to make decisions and keep up the work. It needs an emotional detachment from the outcome and needs an unbiased

concentration on the work in hand. If you can master the above skills, the future is glorious for you as a civil engineer.

## **Compensation**

In India, the salary range of a fresher in civil engineering field is around US\$ 5000 to \$10,000 per annum. But in foreign countries like USA, UK, the salary structure is far more attractive. The salary structure is around US\$50,000 to \$65,000 per annum.

## **Higher education opportunities**

For civil engineers after B.Tech or B.E., she or He can pursue master degree and get an edge over others. But knowledge is only potential power. The application of knowledge is power. Thus engineers who work in engineering firms are more powerful and can handle diverse situations than their counterparts who have chosen to pursue further studies.

But you can anyway learn and apply if you are willing. You can also pursue Master of Science from top universities in the world like MIT, Harvard, Wharton, Stanford but you need to be exceptionally well in order to get into those top-class universities. Because only the creams students of the world get a chance to study there! Other than that you can also opt for 2-tier or 3-tier foreign universities for furthering your education in civil engineering



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## Department of Civil Engineering

### Career Counselling for Students of CE-III & IV Yr Academic Year : 2018-19

#### FEEDBACK FORM

Please evaluate your rating of the course by placing a tick in the appropriate box.

1. Poor 2. Satisfactory 3. Good 4. Very good 5. Excellent

Date: 24/1/19

ASPECTS	RATING				
	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor 1
Coverage of important topics	✓				
Trainer was knowledgeable and skillful		✓			
Quality of input provided			✓		
Presentation in class		✓			
Adherence to the time schedule			✓		
Opportunity given to clear doubts	✓				
Overall learning experience		✓			
How did the training classes enhance your skills?					
Improved knowledge					
Specify problems faced by you during the training classes?					
Specific time absent					