

**A FINAL REPORT OF  
INTERNATIONAL EXPERIENCE PROGRAMME**

At

**Ural Federal University, Ekaterinburg, Russia**

For

**Students of Gujarat Technological University**

**Branch: Civil Engineering**

**20<sup>th</sup> June – 30<sup>th</sup> July, 2016**



**SUBMITTED BY:**

Dr. Vikram M Patel

Faculty Mentor, IEP, GTU



**International Experience Program  
Ural Federal University, Russia**



**Branch: Civil Engineering**

Date of Report Preparation	:	30 <sup>th</sup> July, 2016
Branch of Students	:	Civil Engineering
Duration of IEP	:	6 Weeks (20 <sup>th</sup> June – 30 <sup>th</sup> July, 2016)
IEP Hosting Department	:	Institute of Civil Engineering & IEP Cell of UrFU, Russia
Subjects Offered in IEP	:	1. Design of Concrete Structures 2. Design of Steel Structures
Professors who delivered Lectures	:	Asst. Prof. Evgeniy Redikultsev Asst. Prof. Belyaeva Zoya Asst. Prof. Perminov Roman
Major Components of Learning	:	1. Class room teaching 2. Tutorials 3. Project Preparation 4. Industry Visit
Major Components of IEP Evaluation	:	1. Class Attendance (20%) 2. Class Participation (40%) 3. Final Team Project (40%)

<b><u>Perticular</u></b>	<b><u>:</u></b>	<b><u>Status</u></b>
No. of Students selected for IEP – 2016 Program	:	35 Students
No. of Students Arrived at UrFU, Russia	:	35 Students
No. of Students Completed the Program	:	34 Students
No. of Students left the program in between	;	1 Student



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## **Major Points Covered (Annexure I):**

### **1. Design of Concrete Structures**

- Introduction to concrete structures
- Important features of concrete structures
- Elements of reinforced concrete structures
- Resistance of reinforced concrete structures
- Design of retaining wall
- General principles of concrete design
- Layout of reinforced concrete structures
- Analysis of reinforced concrete structures
- Design of reinforced concrete structure members
- Design of reinforced concrete flat slabs
- Design of prestressed concrete members
- Design of Foot over Bridge



- Design of Industry Buildings



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### 2. Design of Steel Structures

- Introduction to steel structures
- Important features of steel structures
- Elements of steel structures
- Loads and combinations
- Connections
- Design of plate girders
- Analysis and design of truss
- Design of industrial building
- Design of foot – over bridges
- Plastic Design





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### 3. Russian Language & Entrepreneurship

- Russian Language – alphabets
- Russian Language – Common Conversations
- Entrepreneurship concepts
- Entrepreneurship opportunities in Russia





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#### 4. Industry & other Knowledge gaining Visits

- INNOPROM 2016 – International Trade Exhibition
- Ural Mash Plant
- Chel Pipe Plant
- Ural Federal University Factory
- Ural Locomotives
- Central Football Stadium construction project
- Ural Structural Design Consultancy Office
- Pervouralsk Pipe Plant
- Companion Universities Presentations
- Visit of Dinamo Football stadium at Moscow
- Visit of Country Side Houses
- Visit of different laboratories of UrFU
- Precast Concrete Member Factory



- Visit of Professional Material Testing Laboratory



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#### 5. Other Excursion Program Offered by UrFU

- Nizhniye Tavolgi - workshops (ceramics, paintings, making souvenirs etc.)
- Boris Yeltsyn museum
- Lot many culture program
- Nature Park Oleni Ruchi
- Ural Zoo
- Heroes park
- Sports Activities
- trampoline park "Razgon"
- Vienna Music Fest
- Leaning Tower of Nevyansk
- Experience of Traditional Russian Bath – Russia Banya
- Ramada resort
- Europe – Asia Border
- Residence cum office of Governor famous as Sevastyanov house cum museum
- Nizhniye Tavolgi (different workshops there)





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## 6. Faculty Meeting

- TEMPUS & ERASMUS + project of the University of Genoa (Italy) and Ural Federal University
- Meeting with Vice Rector for Research, UrFU – Dr. Vladimir Kruzhaev
- Meeting with Vice Rector for Academic Affairs, UrFU, - Dr. Sergey Knyazev
- Meeting with Civil Department Head Dr. Irina Maltseva
- Visit of Consultancy office (effect-project)
- Visit of Steel structure site with representative of project consultant
- Meeting with Architectural Department faculty and Head Dr. Mikhail
- Meeting with representative of The Ministry of International and Foreign Economics Relations of The Sverdlovsk Region
- Meeting with Mechanical Department faculty and HOD







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### Branch: Civil Engineering

#### Overall Experience:

- Though our students learnt some of the topics before in earlier semesters, they enjoyed different pattern of teaching & learning at UrFU. I appreciate their pattern of evaluation in which they give more weightage to class activities and project work.
- In next turn we should clarify the topics which they should cover in advance to overcome the issue of repeating of some of the content.
- Not only technical subjects but our students learn their culture, communication style, transportation system, care of heritage buildings, cleanliness, overall discipline, etc.
- Our students got the chance to interact with summer internship participants of France and Mexico.
- Though in Ekaterinburg, Russia there is a rare possibility of getting Indian food, our students have enjoyed whole stay of almost 40-42 days.
- **I would be happy to share my experience of UrFU as well as of Russia as a whole with other interesting members, if GTU can arrange a session of one hour.**

#### Note:

**Please find the attached photographs in zip file of whole 40-42 days program for your reference.**

With Warm Regards,

**Dr. V M Patel**

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Faculty Mentor at UrFU, Russia

