

Sc
30/01/15



ISLAMIC UNIVERSITY
OF SCIENCE & TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

Notice for 8th Semester
30.01.2015

It is notified for all students of 8th semester to submit their project synopsis (hardcopy) in the Department by of before 20th of February 2015.

I/ Head
Department of Civil Engineering

No: IUST/CE/Notice/15/Sc
Dated: 30.01.2015

Encl: sample

Cc:

1. AICT for uploading on the University web site.
2. File

The format of the ^{Pre-}Project Synopsis for Pre-Project Viva is:

1. Cover Page (with only Title Name at center of Page)
 2. Declaration Page
 3. Certificate Page
 4. Abstract (in Arial 12 with line spacing of 1.5)
 5. Contents
 6. Introduction (in Arial 12 with line spacing of 1.5)
 - a. Background
 - b. Discussion
 - c. Steps of Work to be done
 - d. Objectives
-

Example/Sample

Title: Interlocking Hollow Block Concrete

(New techniques & study)

Declaration Page (As in attached file-1)

Certificate Page (As in attached file-1)

Abstract – It will cover: 1. Masonry and its Types, 2. Types of Masonry Units, 3. Hollow Block Concrete and their types, 4. Present Study on new techniques of hollow block masonry (with and without reinforcement), 5. Their expected behavior and application.

(Abstract should be on maximum two pages)

Contents (As attached in file-1)

Introduction- Following sequence: 1. Background (to masonry structures, load bearing and non-load bearing, brick and block masonry, etc...Properties of masonry of each type and Application of each type).

2. Discussion- Literature study- various types of masonry units (solid and hollow blocks in concrete, reinforced and un-reinforced, bricks), behavior with mortar and overall behavior

of each masonry unit in masonry wall to different loads. Various methods of bonding of bricks and hollow blocks.

3. Present Work- New Techniques of Interlocking Hollow Block masonry units, their geometric properties (figures and explanation), their bonding, their material properties, reinforcement detailing.

Steps of work to be done: a. Making models of interlocking hollow block masonry units, b. Compression testing (UTM), c. Prism Compression Testing, d. Analysis and interpretation of results

Objectives-

1. Studying of new techniques of interlocking masonry blocks
2. Altering the existing hollow masonry blocks with use of interlocking strip elements of steel, plastic and concrete projections.
3. Determination of Compression properties of interlocking blocks and bond characteristics of interlocking masonry blocks.

The above report can be up to 25-30 pages worthwhile.

Use following references for Interlocking masonry types-

1. <http://www.meyerlokbblock.com/>
2. <http://www.masonrymagazine.com/7-04/brickblock.html>
3. <http://www.willamettegraystone.com/index.php>
4. New techniques- <http://www.google.com/patents/US7665269>
5. New techniques- <http://www.google.com/patents/US20130333313>