



Pillai

Mahatma Education Society's

PILLAI HOC COLLEGE OF ARCHITECTURE

Pillai HOCL Educational Campus, HOC Colony, Rasayani, Via Panvel, Dist- Raigad, Pin: 410207

Tel: 02192- 252005 / 250066

Fax: 02192- 252062

Web: www.phcoa.ac.in

mail: phcarch@gmail.com

Approved by COA, Government of Maharashtra and Affiliated to University of Mumbai

Inst. Code- AR3427

STUDENT DEVELOPMENT PROGRAM
Learning | Growth | Projections

revit architecture.
Detailing of steel structures

For Registration:



For further enquiry:
+91 8788268651
+91 8292858882

Faculty co ordinator
Prof. Shivaji Sarvade

02 nd to 06 th May, 2023
10 am Onwards

Pillai HOC College of
Architecture

Pillai HOCL Educational
Campus, Rasayani

Eligibility for the course : 2nd year onwards (B.Arch students)
2nd year onwards (B.E Civil students)
(Max 30 Students)

course fees : ₹ 200/- (For PHCOA) ₹ 1500/- (For Others)



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PHCOA
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OF ARCHITECTURE



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Revit Architecture: Detailing of Steel Structure

Academic year: 2022-23

Organised by	Pillai HOC College of Architecture, Rasayani
Objectives	<p>Following are the outcomes of the SDP</p> <ol style="list-style-type: none"> 1. Participants will be able to distinguish between different types of connections like, beam to column flange connection, beam to column web connection, beam to beam connection, base plate connection etc. 2. Participants will be able to illustrate different steel connections using connection library in Autodesk Revit. 3. Participants will be able to evaluate the connections and select best possible connection considering space planning. 4. Participants will be able to create a 3-dimensional, information rich computer model of steel warehouse using Revit which can later be used as a basis for Building Information Modelling (BIM)
Name of resource person(s)	Shivaji Madhukar Sarvade
Introduction about the resource person	Structural Engineer and Assistant Professor at Pillai HOC College of Architecture, Rasayani.
Date and time	2nd May, 2023 to 6th May, 2023 – 10.00 am to 4:30 pm
Venue	Studio 607
Faculty coordinator	Shivaji Madhukar Sarvade
Supporting staff	NA
No. of students present	21
Program approved by	Prof. Suchita Sayaji, Principal, PHCOA
Brief about the activity/event	The heart of any steel structure is their connections. It is difficult for the student to visualize the connections as most of the steel structures are covered. Even the students find it difficult to understand if they just draw a two-dimensional drawing of various connections. Steel Structures are more challenging to construct as the fabrication needs to be precise and many parts prepared in the workshop are to be assembled together to create a structure. This is precisely why in the professional practice, the BIM tools such as Revit, TEKLA



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	<p>etc. are used for better coordination among all the stakeholders of a steel structure project. With this in mind, the workshop is designed so that participants become familiar with a BIM software. Autodesk Revit is industry standard for BIM. Hence, it is selected to use for creating an information rich, to the scale, 3-dimensional model of steel warehouse. Participants will be able to model, visualize, analyze and select appropriate connections, for efficient space planning and avoid clashes which might arise if the 3-dimensional modelling is not carried out. The SDP will start with creation of grids and levels and advance step by step to a finished steel warehouse model.</p>
Remarks	SDP was successful and all participants achieved desired outcomes.

Photographs





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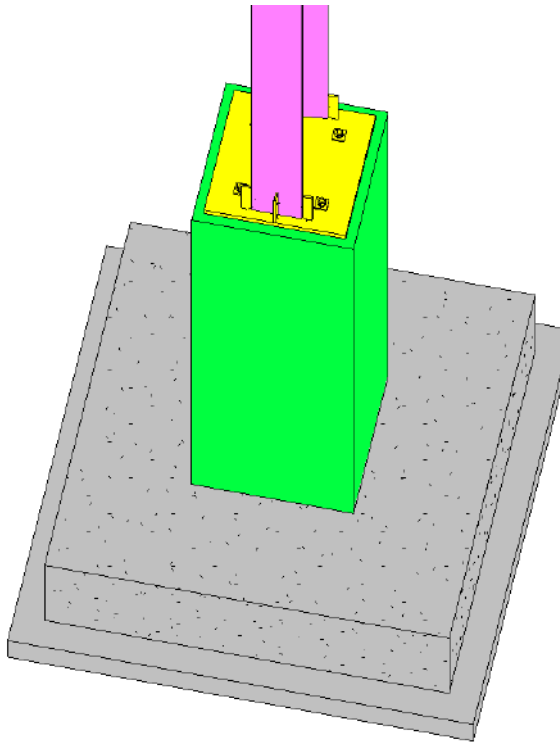
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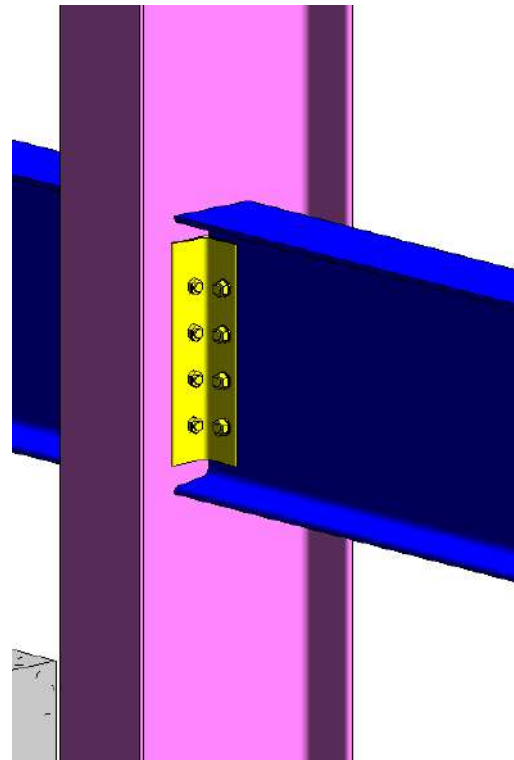
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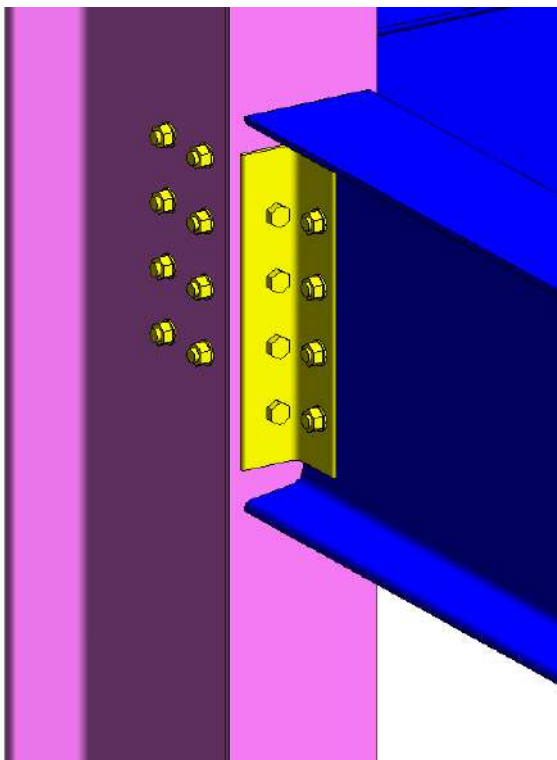
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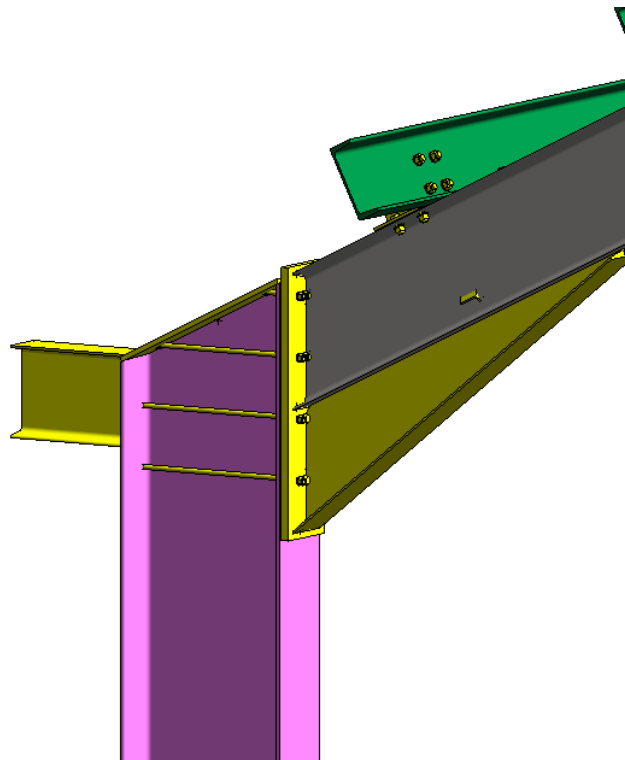
Base Plate Connection



Beam to Column Web Connection



Beam to Column Flange Connection



Rafter Beam to Column Connection



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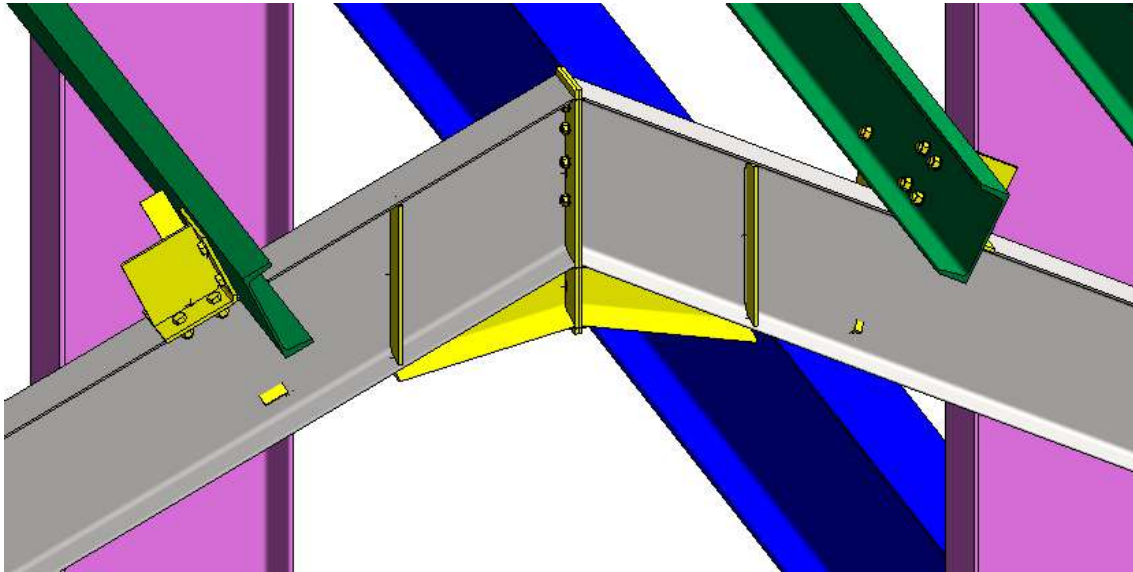
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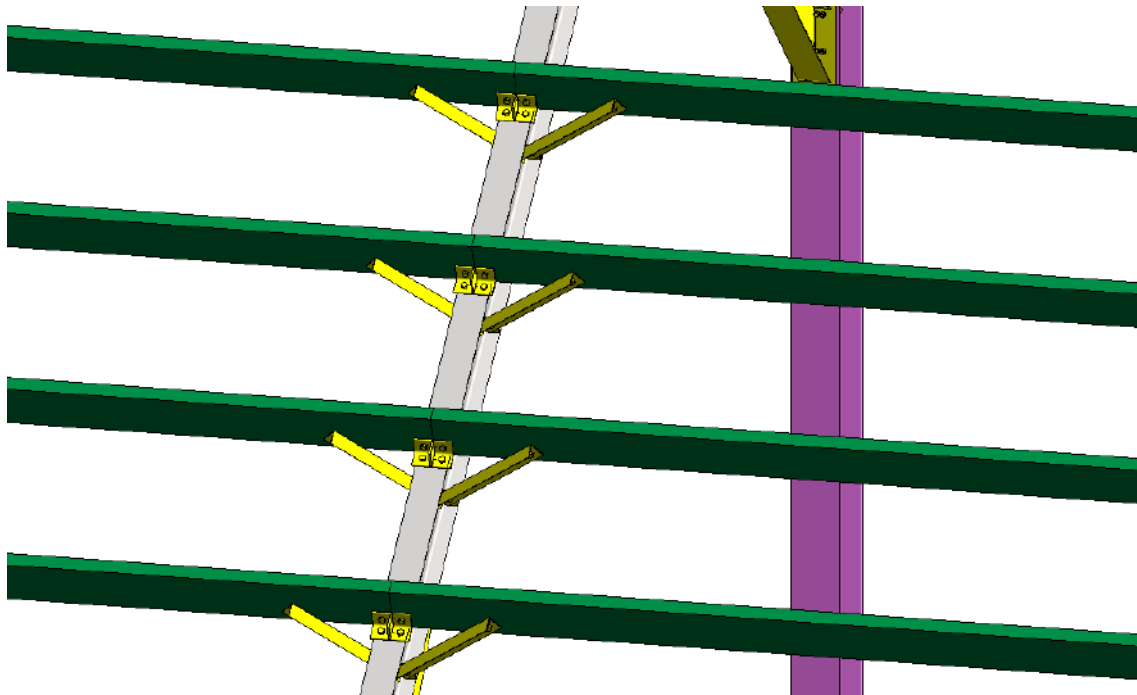
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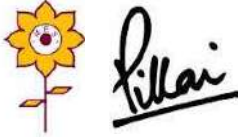
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Apex Haunch Connection



Purlin to Rafter Beam Connection with Fly Bracing.



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Attendance –

UNIVERSITY OF MUMBAI PILLAI HOC COLLEGE OF ARCHITECTURE, RASAYANI Pillai HOCL Educational Campus via Panvel, Dist. Raigad - 410207												
ACADEMIC YEAR (2022-23)												
STUDENT DEVELOPMENT PROGRAM												
Course Name	Revit Architecture											
Course Co-ordinator	Prof. Shivaji Sarvade											
Classroom	Studio - 607-610											
ATTENDANCE												
Name of the student	Semester	Division	02/05/2023	SIGN	03/05/2023	SIGN	04/05/2023	SIGN	05/05/2023	SIGN	06/05/2023	SIGN
Anmol Singh	Semester 4											
Tanmay Sukhadane	Semester 4											
Sandesh mhaskar	Semester 4											
Nidhi Mokul	Semester 4											
Isha deepak kadne	Semester 7	A										
Jayesh kishor ingale	Semester 8	B										
Mayuri Ninad Mhatre	Semester 8	B										
Abhay Ambadas Davakahar	Semester 8	A										
Nikita Karpe	Semester 8	B										
PARIDHI BHARAT DODIYA	Semester 8	A										
Total no. of participants: 21												
Signature of Faculty Incharge												
Prithvi D. Sable Sem 8 B												
Shivaji S.												

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Ruchira Pravin Deshmukh	Semester 8	B										
Runali Suresh Shewale	Semester 8	B										
SAHIL JIARUL SHAIKH	Semester 8	A										
Shreeparth kumbhar	Semester 8	A										
Shrutl Humbe	Semester 8	A										
Viraj	Semester 8	B										
YASH NIKHIL PATIL	Semester 8	A										
Aniruddha Mhatre	Semester 9	A										
Gayatri Pahl	Semester 9	B										
Navin Nakka	Semester 9	B										
CHINMAY NALAWADE	Semester 9											
Total no. of participants: 21												
Signature of Faculty Incharge												
Shivaji S.												