SQVe Engineering

PACKAGES OF RECORDED SESSIONS

FOR STRUCTURAL ENGINEERS

2026

286 sessions with 538 contact hours

Choose or create your own package!

1. INTRODUCTION

SQVe Consultants has successfully launched multiple **unique online courses** over the past five years, addressing **current industry challenges** and their solutions. These courses have covered a wide range of topics, including wind engineering, earthquake-resistant design, machine foundation design, pipe-rack design, steel and RCC structure design, PEB structures, liquid retaining structures, blast resistant design, foundation design, advanced structural analysis, design of connections, etc. The courses focused on the latest provisions of key IS codes such as IS 800:2007, IS 16700:2023, IS 1893 (Part 1):2016, IS 1893 (Part 2):2014, IS 1893 (Part 4):2024, IS 13920:2016, IS 3370:2021, etc. along with software applications like STAAD Pro, ETABS, RCDC, RAM Connection, SAFE & STAAD Foundation Advanced. For steel structure design, specialized courses on AISC 360-22 and EUROCODE-3 were also conducted.

In total, **18 unique online courses** have been delivered, comprising **286 sessions** and **536 contact hours.** The complete list of 286 sessions with titles is provided in **Annexure A**, while links to individual courses can be found in **Annexure B** of this document.

We take this opportunity to **thank all participants** for their support and valuable feedback, which continues to inspire us in expanding these learning initiatives.

All **recorded sessions** from these courses are available for **self-paced learning**, allowing engineers to access them at their convenience. Based on inquiries from professionals and the most popular course combinations, we have structured **12 specialized packages** by clubbing 286 sessions from 18 online courses**.**

2. WHAT IS UNIQUE ABOUT THESE COURSES?

- ✓ The courses are designed by the **experienced engineers** who have more than two decades of experience in the field of structural engineering.
- ✓ The courses are designed from the **practical aspects** which can be readily used in the real projects.
- ✓ The **self-paced** online courses are generated from the recorded sessions of previous online courses. Q&A sessions are also recoded and uploaded at the portal. Documents discussed during the sessions such as software files, presentation documents, excel files, etc. are also stored at the online portal.
- ✓ After going through the recorded sessions, the participants can **raise the queries** through WhatsApp. The same will be discussed through chat, phone or live session, as required.
- ✓ The recorded sessions can be accessed for the **duration** of 3 months, 6 months or 3 years.
- ✓ **Certificate** for participation will be issued after successful completion of the online courses.
- ✓ The courses are designed as a **process of learning together**.
- ✓ You can choose to pay in **easy monthly installments**. Customized subscription plans will be created via Razorpay. Contact us at **contact@sqveconsultants.com** to set it up.
- ✓ The course packages have been created based on the **inquiries** we are receiving and the combinations of courses that are **most frequently purchased**.
- ✓ One can also create **customised package** from the 18 online courses. Access to **individual courses** also can be purchased instead of combo packages.

3. WHO SHOULD PARTICIPATE?

The courses will be useful for following:

- ✓ **Practicing Structural Consultants**
- ✓ **Senior Structural Engineers in the company**
- ✓ **Junior Structural Engineers in the company**
- ✓ **Owner's consultants**
- ✓ **Proof checking consultants**
- ✓ **Government professionals involved in structural engineering**
- ✓ **PEB design engineers**
- ✓ **Research scholars**
- ✓ **Academicians**
- ✓ **Post Graduate students in Structural Engineering**
- ✓ **Civil engineering students who are interested in Structural Engineering, etc.**

4. Packages of online recorded sessions

Table 1 shows details of **12 nos. of packages** (**REC-STR-005 to REC-STR-015 & REC-STR-009-A**). For each package, individual courses included in the package, nos. of sessions, fees based on access duration, etc. are mentioned in the following table.

Table 1: Details of REC-STR-005 to REC-STR-015 & REC-STR-009-A

Package ID	Title	Course ID	Title of the Course	No. of sessions	Total nos.	3 Months	6 Months	3 Years
REC-STR-005	Learn wind force estimation as per IS 875 (Part 3):2015	**WIND-STR-001**	Wind force estimation for low rise structures as per IS 875 (Part 3) : 2015	8	**17**	**4800**	**6000**	**7800**
		WIND-STR-002	Wind force estimation for TALL structures as per IS 875 (Part 3) : 2015	9				
REC-STR-006	Learn earthquake resistant design along with software applications	**EQ-STR-002**	Learn concepts of earthquake resistant design	16	**40**	**13750**	**17200**	**22350**
		EQ-STR-003	Stiffness modifiers and software applications	4				
		EQ-STR-004	Types of analysis for earthquake resistant design | ETABS | STAAD Pro	20				

Package ID	Title	Course ID	Title of the Course	No. of sessions	Total nos.	3 Months	6 Months	3 Years
REC-STR-007	Learn software applications in STAAD Pro, ETABS & RCDC	**STAAD-STR-001**	Basic to Advanced training for STAAD Pro	21	**52**	**16950**	**21200**	**27550**
		ETABS-STR-002	Learn ETABS with fundamentals of structural engineering	16				
		RCC-STR-001	Comparison of results for RCC structures | STAAD Pro | RCDC | ETABS	15				
REC-STR-008	Advanced analysis in earthquake resistant design and comparison of STAAD Pro, ETABS and RCDC	**EQ-STR-004**	Types of analysis for earthquake resistant design | ETABS | STAAD Pro	20	**35**	**11750**	**14650**	**19100**
		RCC-STR-001	Comparison of results for RCC structures | STAAD Pro | RCDC | ETABS	15				
REC-STR-009	Design of Pipe Rack and design of machine foundations for Oil and Gas industry	**ONG-STR-001**	Design of Pipe-rack as per AISC | ASCE 7 | PIP	19	**32**	**21600**	**27000**	**35100**
		DYN-STR-001	Design of Machine Foundations	13				

Package ID	Title	Course ID	Title of the Course	No. of sessions	Total nos.	3 Months	6 Months	3 Years
REC-STR-009-A	Design of Pipe Rack, design of Machine foundations & Blast resistant design for Oil and Gas industry	**ONG-STR-001**	Design of Pipe-rack as per AISC | ASCE 7 | PIP	19	**49**	**27850**	**34800**	**45250**
		DYN-STR-001	Design of Machine Foundations	13				
		ONG-STR-002	Blast resistant design of the buildings	17				
REC-STR-010	Learn IS 800:2007 along with software applications in STAAD Pro and connection design using EUROCODE, AISC 360 & IS 800:2007 | RAM connection software	**STEEL-STR-001**	Decode IS 800:2007 along with software applications in STAAD Pro | RAM connection	18	**34**	**13300**	**16650**	**21650**
		STEEL-STR-006	Design of connections for steel structures | EUROCODE 3 | AISC 360 | IS 800 : 2007 | RAM connection software	16				

Package ID	Title	Course ID	Title of the Course	No. of sessions	Total nos.	3 Months	6 Months	3 Years
REC-STR-011	Learn AISC-360 22 along with software applications in STAAD Pro and connection design using EUROCODE, AISC 360 & IS 800:2007 | RAM connection software	**STEEL-STR-005**	Design of steel structures as per AISC 360-22 along with software applications in STAAD Pro	19	**35**	**14500**	**18100**	**23550**
		STEEL-STR-006	Design of connections for steel structures | EUROCODE 3 | AISC 360 | IS 800 : 2007 | RAM connection software	16				
REC-STR-012	Design of PEB structures as per IS 800:2007| STAAD Pro| RAM Connection| RCDC	**STEEL-STR-001**	Decode IS 800:2007 along with software applications in STAAD Pro | RAM connection	18	**56**	**21800**	**27250**	**35450**
		STEEL-STR-007	Design of PEB structures (warehouse type) as per IS 800:2007	19				
		STEL-STR-008	Design of PEB structures with cranes per IS 800:2007 & American standards	19				

Package ID	Title	Course ID	Title of the Course	No. of sessions	Total nos.	3 Months	6 Months	3 Years
REC-STR-013	Learn design of steel structures using IS 800:2007 | AISC 360-22 along with connection design | Design of Warehouse type of PEB structures as per IS 800:2007 | STAAD Pro | RAM Connection | RCDC	**STEEL-STR-001**	Decode IS 800:2007 along with software applications in STAAD Pro | RAM connection	18	**91**	**35440**	**44300**	**57600**
		STEEL-STR-005	Design of steel structures as per AISC 360-22 along with software applications in STAAD Pro	19				
		STEEL-STR-006	Design of connections for steel structures | EUROCODE 3 | AISC 360 | IS 800 : 2007 | RAM connection software	16				
		STEEL-STR-007	Design of PEB structures (warehouse type) as per IS 800:2007	19				
		STEEL-STR-008	Design of PEB structures with cranes per IS 800:2007 & American standards	19				

Package ID	Title	Course ID	Title of the Course	No. of sessions	Total nos.	3 Months	6 Months	3 Years
REC-STR-014	Design of Pipe Rack for Oil & Gas Industry and design of steel structures along with connection design as per American codes	**STEEL-STR-005**	Design of steel structures as per AISC 360-22 along with software applications in STAAD Pro	19	**54**	**22900**	**28650**	**37250**
		STEEL-STR-006	Design of connections for steel structures | EUROCODE 3 | AISC 360 | IS 800 : 2007 | RAM connection software	16				
		ONG-STR-001	Design of Pipe-rack as per AISC | ASCE 7 | PIP	19				
REC-STR-015	Design of Pipe Rack for Oil & Gas Industry and design of steel structures along with connection design as per American codes	**RCC-STR-001**	Comparison of results for RCC structures | STAAD Pro | RCDC | ETABS	15	**49**	**24300**	**30400**	**39500**
		RCC-STR-002	Design of Liquid retaining RCC structures as per IS 3370	15				
		RCC-STR-003	Foundation engineering (Part 1)	19				

5. IMPORTANT NOTES

- ✓ Fees are inclusive of **GST** (18%). GST invoice is available.

- ✓ **Flexible Payment Options**
  We offer the convenience of **installment payments** for any package. For example, if the total fee is ₹36,000, you can opt to pay in six monthly installments of ₹6,000 each.
  A customized subscription plan will be created for you via Razorpay. To set up your plan, please reach out to us at contact@sqveconsultants.com.

- ✓ **Annexure A** shows titles of different sessions covered in the individual online course. The same will give an idea about contact hours of the program and the content covered in the different packages.

- ✓ **Annexure B** shows link of the webpages for the individual online courses. The same will help in understanding the main focus area of the courses.

- ✓ If you **already purchased any online course** for the duration of six months then access for the same course can be extended for additional six months of time with **only 10% of the fees (without discount)**.

- ✓ Fees are mentioned for the **Indian participants**. Interested participants outside India may connect with us for further details through email address: contact@sqveconsultants.com

- ✓ **For students** pursuing graduation or post-graduation, 20% discount is applicable. Interested student shall send request for availing the discount through their institute email address.

- ✓ For any queries, feel free to **connect with us** through email address: contact@sqveconsultants.com

6. COURSE SCHEDULE

Start Date	**Zero day** (from date of purchase of the package)
End Date	**3 months, 6 months or 3 years from Zero day** (depending upon the access period preferred by the participant)
Title of each session	Please refer Annexure A of the document for titles of each session.

7. HOW TO REGISTER FOR THE COURSE?

Following shows step-by-step approach for purchasing access to the package:

- ✓ Select the package of your interest (from REC-STR-005 to REC-STR-016 & REC-STR-009-A).
  - For any doubts in selection of the package, feel free to connect with us through email address: contact@sqveconsultants.com . **We will arrange a call for detailed discussion**. One can also create customised package from the above- mentioned courses. Access to individual courses also can be purchased instead of combo packages.

- ✓ Decide the preferred duration for access of the course, i.e. 3 months, 6 months or 3 years. Based on the access duration, the applicable fees are mentioned in the document.

- ✓ For availing students discount or any other applicable discount, please get in touch with us through the above mentioned email address.

- ✓ **Flexible Payment Options**
  We offer the convenience of installment payments for any package. For example, if the total fee is ₹36,000, you can opt to pay in six monthly installments of ₹6,000 each.
  A customized subscription plan will be created for you via Razorpay. To set up your plan, please reach out to us at contact@sqveconsultants.com.

- ✓ Above mentioned payment options are only for participants from India. For engineers outside of India, please connect with us for fee and payment details.

8. About SQVe Consultants

SQVe Consultants (SQVe) is a company established with a vision of enhancing the engineering profession. Name of the company is derived from the first letters of major goals of engineering, i.e. **S**chedule adherence, **Q**uality assurance & **V**alue **e**ngineering. For success of any project, it is required that all these goals are considered simultaneously in the projects. However, in today's fast track projects, it is indeed difficult to address all the goals in the design engineering cycle simultaneously. We believe that for achieving these desired goals, there are many developmental activities (off-project) required in the organisations for continual improvement. Our all services are designed to assist different organizations to achieve the engineering goals. We intend to collaborate with the different organisations for long term basis and aim towards enhancing the engineering profession through our unique services. Our values are Innovation, Commitment & Integrity.

Your partner for achieving engineering goals!

We look forward for **long term association** with different organisations for enhancement of engineering profession through our unique services. Please get in touch with us for any requirements related to online or offline training for civi/structural engineering as well as in the area of people management (soft skills).

We also provide unique service for improvement in **quality assurance** of the structural consultancy companies. For more information, please get in touch with us for scheduling the free call to understand the details.

For more details, please refer website : https://sqveconsultants.com

You may contact us at email address : contact@sqveconsultants.com

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ANNEXURE A

Title of sessions for different courses

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
WIND-STR-001	1	Wind Characteristics
WIND-STR-001	2	Queries from participants
WIND-STR-001	3	Wind force estimation for SHED TYPE structures as per IS 875 (Part 3) : 2015
WIND-STR-001	4	Wind force estimation for DOMED ROOF as per IS 875 (Part 3) : 2015
WIND-STR-001	5	Wind force estimation for MULTI SPAN STRUCTURES as per IS 875 (Part 3):2015
WIND-STR-001	6	Wind force estimation for HOARDINGS as per IS 875 (Part 3) : 2015
WIND-STR-001	7	Wind tunnel testing requirements for LOW RISE STRUCTURES
WIND-STR-001	8	OPEN DISCUSSION - Queries received from participants

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Course ID	No.	Title of the session
WIND-STR-002	1	Wind characteristics for TALL structures. Changes in Terrain Category effects
WIND-STR-002	2	Force coefficient approach for TALL buildings. Dynamic effects on TALL structures. Response parameters of TALL Buildings
WIND-STR-002	3	Dynamic wind response – Along wind response as per IS 875 (Part 3)
WIND-STR-002	4	Wind tunnels and Interference effects
WIND-STR-002	5	Along wind response - examples
WIND-STR-002	6	Along wind response - examples
WIND-STR-002	7	Across wind response for TALL structures
WIND-STR-002	8	Across wind response for TALL structures
WIND-STR-002	9	OPEN DISCUSSION - Response to queries from participants

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Course ID	No.	Title of the session
EQ-STR-002	1	Single degree of freedom systems
EQ-STR-002	2	Multi degree of freedom - basics of structural dynamics
EQ-STR-002	3	Multi Degree of Freedom (Part 2) _ Elastic spectra (Part 1)
EQ-STR-002	4	Elastic Spectra (Part 1...cont.)
EQ-STR-002	5	Elastic spectra (Part 2)
EQ-STR-002	6	Elastic spectra _ Basics of inelastic behavior of structurers
EQ-STR-002	7	Understanding IS 1893 (Part 1) _ 2016
EQ-STR-002	8	Discussion on IS 1893 (Part 1)...cont
EQ-STR-002	9	IS 1893 (Part 1) _ 2016 and STAAD.Pro
EQ-STR-002	10	IS 1893 (Part 1) 2016 and STAAD...cont
EQ-STR-002	11	Discussion on ETABS software & IS 1893(Part 1) _ 2016
EQ-STR-002	12	Discussion on IS 13920_2016
EQ-STR-002	13	Discussions on IS 16700_2017 (up to section 7 only)
EQ-STR-002	14	Discussions on software applications
EQ-STR-002	15	Discussions on Software applications
EQ-STR-002	16	Software applications for few points _ Open discussion

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Course ID	No.	Title of the session
EQ-STR-003	1	Understanding of stiffness modifiers as per IS 1893 (Part 1) : 2016 & IS 16700 : 2017
EQ-STR-003	2	Application of stiffness modifier in STAAD and it's impact on behaviour of structure (live demonstration in software)
EQ-STR-003	3	Application of stiffness modifier in ETABS and it's impact on behaviour of structure (live demonstration in software)
EQ-STR-003	4	Do's & Don'ts for stiffness modifiers | Open discussion

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
EQ-STR-004	1	Basics of Structural Dynamics (Part 1)
EQ-STR-004	2	Basics of structural dynamics (Part 2)
EQ-STR-004	3	Basics of structural dynamics (PART 3)
EQ-STR-004	4	Basics of structural dynamics (Part 4) | Response Spectrum Analysis (Part 1)
EQ-STR-004	5	Response Spectrum Analysis (Part 2)
EQ-STR-004	6	Response Spectrum Analysis (Part 3)
EQ-STR-004	7	Response Spectrum Analysis (Part 4)
EQ-STR-004	8	Response Spectrum Analysis (Part-5)
EQ-STR-004	9	P_DELTA analysis (Part 1)
EQ-STR-004	10	P_DELTA Analysis (PART 2)
EQ-STR-004	11	P_DELTA Analysis (PART 3)
EQ-STR-004	12	Pushover analysis (Part-1)
EQ-STR-004	13	Pushover Analysis (Part 2)
EQ-STR-004	14	Pushover analysis (Part 3)
EQ-STR-004	15	Pushover Analysis (Part 4)
EQ-STR-004	16	Pushover analysis (Part 5)
EQ-STR-004	17	Nonlinear time history analysis (Part 1)
EQ-STR-004	18	Nonlinear time history analysis (Part 2)
EQ-STR-004	19	Nonlinear time history analysis (Part 3)
EQ-STR-004	20	Overview of PBD | Concluding remarks | Discussion for queries

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
STAAD-STR-001	1	Approach to software
STAAD-STR-001	2	Geometry creation
STAAD-STR-001	3	Physical Modelling
STAAD-STR-001	4	Property, Material & Specifications
STAAD-STR-001	5	Specifications, Supports & Dead load
STAAD-STR-001	6	Dead load, Live load, Wind load
STAAD-STR-001	7	Wind load
STAAD-STR-001	8	Basics of Structural dynamics and equivalent static load for earthquake
STAAD-STR-001	9	Earthquake Resistant Design _ Part 2
STAAD-STR-001	10	Earthquake resistant design - 3
STAAD-STR-001	11	Earthquake resistant design - 4
STAAD-STR-001	12	Earthquake Resistant Design - 5
STAAD-STR-001	13	Queries from participants & Advanced analysis options
STAAD-STR-001	14	Design parameters for steel and concrete
STAAD-STR-001	15	Finite element method - Plate and Solid elements
STAAD-STR-001	16	Overview of RCDC for design of concrete and discussions on queries from participants
STAAD-STR-001	17	Advanced Concrete Design and discussions on queries from participants
STAAD-STR-001	18	Design of RC beams & columns and queries from participants
STAAD-STR-001	19	Troubleshooting in the STAAD.Pro software
STAAD-STR-001	20	Queries from the participants & Brief about Advanced Foundation Design
STAAD-STR-001	21	Queries from participants and basics of OPEN STAAD

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
ETABS-STR-002	1	Context setting & Overall understanding of the software
ETABS-STR-002	2	Geometry creation, property specifications, Local axes of elements
ETABS-STR-002	3	Section Designer, Releases, End length offset, Insertion point & SHELL element
ETABS-STR-002	4	Edit, View & Select commands and Behaviour of shell element
ETABS-STR-002	5	Behaviour of Shell elements
ETABS-STR-002	6	Application of loads in ETABS
ETABS-STR-002	7	Application of earthquake force in the software
ETABS-STR-002	8	Application of vertical seismic load in ETABS
ETABS-STR-002	9	Response spectrum analysis, Torsion consideration, Load combinations, Stiffness modifiers
ETABS-STR-002	10	Stiffness modifier, P delta, Story drift & Modelling of shear wall
ETABS-STR-002	11	Design of beams and columns in the software
ETABS-STR-002	12	Modelling and design of shear wall
ETABS-STR-002	13	Discussion on shear wall, Strong column weak beam, Gravity column & Design of steel structures
ETABS-STR-002	14	Discussion on interpretation of results for shell elements, shear wall, design of steel structures
ETABS-STR-002	15	Composite column design, soil structure interaction, slab design
ETABS-STR-002	16	Construction sequence load in the software

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
STEEL-STR-001	1	Basics of steel structure | Overview of IS 800:2007
STEEL-STR-001	2	Changes made in NBC 2016 | Slender sections | Types of analysis (Part 1)
STEEL-STR-001	3	Types of analysis | Buckling analysis | ETABS | STAAD.Pro
STEEL-STR-001	4	Buckling analysis | Second order elastic analysis | STAAD.Pro
STEEL-STR-001	5	P-delta analysis | STAAD.Pro
STEEL-STR-001	6	Design of tension member | STAAD Pro | ETABS |Design of compression member
STEEL-STR-001	7	Design of compression member | STAAD Pro | ETABS | Pure bending
STEEL-STR-001	8	Elastic lateral torsional buckling | STAAD Pro | ETABS
STEEL-STR-001	9	Design of member for pure bending | STAAD Pro | ETABS | Combined forces
STEEL-STR-001	10	Design of members for combined forces | STAAD Pro | ETABS
STEEL-STR-001	11	Connection design (Part 1)
STEEL-STR-001	12	Design of connections | RAM connection software (Part 2)
STEEL-STR-001	13	Design of connections | RAM connection software (Part 3)
STEEL-STR-001	14	Design of connections (Part 4) | Earthquake resistant design (Part 1)
STEEL-STR-001	15	Earthquake resistant design | NBC 2016 | IS 18168 - (Part 2)
STEEL-STR-001	16	Earthquake resistant design | IS 18168 : 2023 | (Part -3)
STEEL-STR-001	17	Discussion on case study - (Part 1)
STEEL-STR-001	18	Discussion on case study | Way-forward (Part 2)

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Course ID	No.	Title of the session
STEEL-STR-005	1	Session 1 - Overview of AISC 360-22 & Design requirements
STEEL-STR-005	2	Session 2 - Cross section | Material | Structural system | Buckling
STEEL-STR-005	3	Session 3 - Buckling analysis | Design for stability
STEEL-STR-005	4	Session 4 - Design for stability
STEEL-STR-005	5	Session 5 - Verification examples for stability analysis | Different types of analysis
STEEL-STR-005	6	Session 6 - Design of Tension members
STEEL-STR-005	7	Session 7 - Direct analysis method in STAAD
STEEL-STR-005	8	Session 8 - Design of Compression members
STEEL-STR-005	9	Session 9 - Design of members for flexure
STEEL-STR-005	10	Session 10- Design of members for flexure (Part 2)
STEEL-STR-005	11	Session 11 - Design parameters in STAAD | Design of members for bending in STAAD
STEEL-STR-005	12	Session 12 - Design of members for combined forces | Learning from failure of structures
STEEL-STR-005	13	Session 13 - Design of connections for steel structure
STEEL-STR-005	14	Session 14 - Design of connections for steel structure (Part 2)
STEEL-STR-005	15	Session 15 - Design of connections for steel structures (Part 3)
STEEL-STR-005	16	Session 16 - Design of connections for steel structures (Part 4)
STEEL-STR-005	17	Session 17 - Seismic design requirements as per AISC 341-16
STEEL-STR-005	18	Session 18 - Seismic design requirements as per AISC 358-16
STEEL-STR-005	19	Session 19- Overview of Seismic load & Wind load generation in STAAD Pro

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Course ID	No.	Title of the session
STEEL-STR-006	1	Structural behaviour and connections | Introduction
STEEL-STR-006	2	Overview of design of connections as per Eurocode -3
STEEL-STR-006	3	Overview of Eurocode-3 | Bolt and Weld capacity
STEEL-STR-006	4	Eurocode-3 |Classification & Modelling| Component design | Shear connection
STEEL-STR-006	5	Design of shear connections | SCI P358 | RAM connection
STEEL-STR-006	6	Design of shear connections |Fin plate connection|SCI P358 | RAM connection
STEEL-STR-006	7	Splice & Bracing connection |P358 |RAM connection| Moment connection
STEEL-STR-006	8	Design of moment connections | SCI P398 | RAM connection
STEEL-STR-006	9	Moment connections | SCI P398 | RAM Connection | Overview of AISC 360-22
STEEL-STR-006	10	Overview of AISC 360-22 | Worked out examples| RAM Connection
STEEL-STR-006	11	Design of connections in RAM Connection as per AISC 360-22
STEEL-STR-006	12	Connections for tubular sections|Eurocode-3| AISC 360-22 | RAM connection
STEEL-STR-006	13	Prequalified connections as per AISC 358-16 | RAM connection
STEEL-STR-006	14	Overview of connection design as per IS 800:2007
STEEL-STR-006	15	Connections for earthquake resistant design |IS 800:2007| RAM connections
STEEL-STR-006	16	Discussion related to queries | Way-forward

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Course ID	No.	Title of the session
STEEL-STR-007	1	Stability concepts for design of shed type of structure (Part 1)
STEEL-STR-007	2	Stability concepts for design of shed type of structure (Part 2)
STEEL-STR-007	3	Stability concepts for design of shed type of structure (Part 3)
STEEL-STR-007	4	Stability concepts for design of shed type of structures (part 4)
STEEL-STR-007	5	FEM models for Rafter | Lateral Torsional Buckling
STEEL-STR-007	6	FEM models for Purlins | Lateral torsional buckling | Load capacity
STEEL-STR-007	7	Warehouse no. 1 | Geometry | Structural system | Gravity load (Part 1)
STEEL-STR-007	7	Warehouse no. 1 | Geometry | Structural system | Gravity load (Part 2)
STEEL-STR-007	8	WH no. 1 | Property |Gravity load |Notional load |Erection load (Part 1)
STEEL-STR-007	8	WH no. 1 | Property |Gravity load |Notional load |Erection load (Part 1)
STEEL-STR-007	8	WH no. 1 | Property |Gravity load |Notional load |Erection load (Part 1)
STEEL-STR-007	9	Warehouse no. 1 | Seismic loads | IS 1893 (Part 4) - 2024
STEEL-STR-007	10	WH1 | Seismic load | Response spectrum method | Wind load calculations
STEEL-STR-007	11	Warehouse no. 1 | Wind load calculations as per IS 875 (Part 3):2015
STEEL-STR-007	12	WH no. 1 | Wind force application | P-delta analysis | Buckling analysis
STEEL-STR-007	13	Warehouse no. 1 | Design parameters |Design of steel structures (Part 1)
STEEL-STR-007	14	Warehouse no. 1 |Design parameters | Design of steel structures (Part 2)
STEEL-STR-007	15	WH 1 | Design parameter | Effective length |Taper slender section
STEEL-STR-007	16	Warehouse no. 1 | Connection design | RAM Connection
STEEL-STR-007	17	Warehouse no. 1 | Foundation design | RCDC
STEEL-STR-007	18	WH 2 | Geometry | Structural system |Loading | Design of steel structure
STEEL-STR-007	19	WH 2 | Connection design | Foundation design | Queries | Way forward

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
RCC-STR-001	1	Response Spectrum Analysis | STAAD Pro
RCC-STR-001	2	Response Spectrum Analysis (Part 2) | STAAD Pro
RCC-STR-001	3	Response spectrum analysis (part 3) | STAAD Pro | ETABS
RCC-STR-001	4	Response Spectrum Analysis (Part 4) | ETABS
RCC-STR-001	5	P-Delta analysis | STAAD Pro | ETABS
RCC-STR-001	6	P-delta analysis | ETABS
RCC-STR-001	7	Torsion eccentricity | Stiffness Modifiers | ETABS | STAAD
RCC-STR-001	8	Stiffness modifiers | Ritz vector analysis | Membrane vs thin shell | ETABS
RCC-STR-001	9	Queries from the participants | Stiffness modifier | Membrane vs Thin shell
RCC-STR-001	10	Rigid vs Semi-rigid diaphragm, Design of columns | STAAD | RCDC | ETABS
RCC-STR-001	11	Design of columns | STAAD Pro | RCDC | ETABS
RCC-STR-001	12	Design of columns | Effective length | Stability Index
RCC-STR-001	13	Design of columns | Temperature forces | Queries from participants
RCC-STR-001	14	Design of shear wall | Queries from the participants
RCC-STR-001	15	Design of Shear Wall | Queries from participants

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
DYN-STR-001	1	Basics of Structural Dynamics (Part 1)
DYN-STR-001	2	Basics of Structural Dynamics (Part 2)
DYN-STR-001	3	Basics of Structural Dynamics (Part 3)
DYN-STR-001	4	Basics of Structural Dynamics (Part 4) | Types of Machines
DYN-STR-001	5	Step by step approach for design of Machine Foundations
DYN-STR-001	6	Solid elements | Dynamic analysis of cantilever beam
DYN-STR-001	7	Soil Dynamics | Calculations of equivalent spring values
DYN-STR-001	8	Reciprocating equipment foundation | Discussion on IS 2974 (Part 1)
DYN-STR-001	9	Reciprocating equipment foundation | 3D model in the software
DYN-STR-001	10	Reciprocating equipment foundation | 3D model in the software| Part-2
DYN-STR-001	11	Discussion on IS 2974 (Part 4) | 3D model of Rotary machine foundation
DYN-STR-001	12	Discussion on IS 2974 (Part 3) | 3D model of Table Top Foundation
DYN-STR-001	13	Machine supported on floor | Queries from the participants

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
ONG-STR-001	1	Context setting | Overview of Oil and Gas Industry | Cross section of Pipe Rack
ONG-STR-001	2	Pipe supports | Air Fin Cooler | Fire proofing requirements | PIP standard (Part 1)
ONG-STR-001	3	PIP document | Thermal anchor and Thermal friction | Pipe surge
ONG-STR-001	4	Discussion on input data for Pipe Rack | Structural system for Pipe Rack
ONG-STR-001	5	AFC nozzle loads | Further analysis of input | DL | LL | Piping loads
ONG-STR-001	6	Important points for structural system | Preliminary sizing | Support conditions
ONG-STR-001	7	Queries from participants | Wind load calculations as per ASCE 7 (Part 1)
ONG-STR-001	8	Wind load calculations in transverse direction of Pipe Rack (Part 2)
ONG-STR-001	9	Fireproofing | Longitudinal wind force calculations | Application of wind force in software
ONG-STR-001	10	Modal analysis of Pipe rack | Mode shapes | Natural frequencies | Structural behaviour
ONG-STR-001	11	Modal analysis | Seismic load calculations as per ASCE 7 (Part 1)
ONG-STR-001	12	Seismic load calculations as per ASCE 7 | Software applications (Part 2)
ONG-STR-001	13	Seismic load as per ASCE 7 (Part 3) | Load combinations | Notional loads
ONG-STR-001	14	Direct Analysis Method as per AISC 360-22
ONG-STR-001	15	Repeat load | Direct analysis method| Design parameters as per AISC 360-16
ONG-STR-001	16	Design parameters as per ASCE 7-16 & AISC 341-16 (Part 2)
ONG-STR-001	17	Design of connections | AISC 358-16 | RAM connection
ONG-STR-001	18	Design of connections | RAM connections | Design of foundations | RCDC
ONG-STR-001	19	Design parameters as per IS 800:2007 | Vibration in Piperack | Q&A | Way Forward

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
RCC-STR-002	1	Introduction | Detailed discussion on IS 3370 (Part 1) : 2021
RCC-STR-002	2	Detailed discussion on IS 3370 (Part 1) : 2021...Cont.
RCC-STR-002	3	Detailed discussion on IS 3370 (Part 2) : 2021
RCC-STR-002	4	Detailed discussion on IS 3370 (Part 2) : 2021 | Crack width calculations for immature concrete
RCC-STR-002	5	Crack width calculations for mature concrete | IS 3370 (Part 4 / Sec 1) : 2021
RCC-STR-002	6	IS 3370 (Part 4 / Sec 1) : 2021 | Fundamentals of FEM | STAAD Pro (Part 1)
RCC-STR-002	7	IS 3370 (Part 4 / Sec 1) : 2021 | Fundamentals of FEM | STAAD Pro | ETABS (Part 2)
RCC-STR-002	8	IS 3370 (Part 4 / Sec 1) : 2021 | Use of design table | Comparison with STAAD Pro
RCC-STR-002	9	Individual wall model using ETABS | Rectangular water tank as per IS 3370 (Part 4 / Sec 2) : 2021 | Comparison with STAAD Pro
RCC-STR-002	10	Rectangular & Circular water tanks | IS 3370 (Part 4 / Sec 2 / Sec 3) : 2021 | STAAD Pro & ETABS
RCC-STR-002	11	Comparison of deflection | Moody's chart | Circular geometry in ETABS | IS 1893 (Part 2)
RCC-STR-002	12	Calculations of seismic load as per IS 1893 (Part 2):2014 -Part 1
RCC-STR-002	13	Calculations of seismic load as per IS 1893 (Part 2):2014 -Part 2 | IS 11682
RCC-STR-002	14	Case study for design of rectangular tank (Part 1)
RCC-STR-002	15	Case study for design of rectangular water tank (Part 2) | Discussion for balance queries

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
RCC-STR-003	1	Introduction | Step by step approach in STAAD Foundation Advanced & SAFE
RCC-STR-003	2	Comparison of pressure calculations | STAAD Foundation Advanced | Manual
RCC-STR-003	3	Foundation for two columns | Four columns | SFA | SAFE
RCC-STR-003	4	Teng's chart | Limitations of Response Spectrum Analysis | STAAD Pro
RCC-STR-003	5	Limitations of RSA | ETABS | SAFE
RCC-STR-003	6	Interface between geotechnical and structural engineers (Part 1)
RCC-STR-003	7	Interface between geotechnical and structural engineer (Part 2)
RCC-STR-003	8	Atterberg limits | Soil structure interaction | Modulus of subgrade reaction
RCC-STR-003	9	Overview of IS geotechnical related codes
RCC-STR-003	10	Pile lateral load capacity calculations | Q & A
RCC-STR-003	11	Overview of geotech related codes | Brief of ground improvement
RCC-STR-003	12	Strip vs FEM results | Isolated footing supported on soil | SAFE
RCC-STR-003	13	Isolated footing | supported on soil & piles | SFA | SAFE
RCC-STR-003	14	Interpretation of FEM results in SFA | One way shear and Two way shear | SAFE
RCC-STR-003	15	One way shear | Two way shear | SAFE | SFA | IS 456
RCC-STR-003	16	Enhanced shear strength | IS 456:2000 | Octagonal foundation for vertical vessel - SAFE | Octagonal foundation for vessel -SFA
RCC-STR-003	17	Octagonal foundation on piles | Chimney foundation | Retaining wall Foundation | Transmission line tower foundation
RCC-STR-003	18	Ground water table | Raft foundation supported on soil
RCC-STR-003	19	Raft supported on piles | Piled- Raft foundation | Q & A

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
STEEL-STR-008	1	Introduction | Basics of steel structure | Flexural buckling
STEEL-STR-008	2	Flexural buckling | Local buckling | Section classification
STEEL-STR-008	3	Lateral Torsional Buckling | IS 800 | Annexure E | FEM models
STEEL-STR-008	4	Lateral Torsional Buckling FEM models | IS 800 | AISC 360
STEEL-STR-008	5	Behavior of 2D frames | Interaction between different components | Stability
STEEL-STR-008	6	Design capacity of purlins | FEM models | Influence of type of sheeting
STEEL-STR-008	7	FEM models of purlin | Overview of roof sheeting | Discussion for crane runway
STEEL-STR-008	8	Q & A | Discussion on crane runway | Overview of fatigue design | AISC 360-22
STEEL-STR-008	9	Case study for design of crane girder | User section in shape editor
STEEL-STR-008	10	Loads on columns from crane girder | Discussion on case study of PEB structure | Structural system | Geometry | Gravity loads
STEEL-STR-008	11	Q & A | Discussion on PEB structure | Wind load as per IS 875 (Part 3):2015
STEEL-STR-008	12	Overview of wind load as per ASCE 7-16 | Performing buckling analysis for structure
STEEL-STR-008	13	Important point for buckling analysis | Cane load application in model | Seismic load
STEEL-STR-008	14	Load combinations | Notional loads as per AISC 360 & IS 800 | Erection methodology | P-delta analysis
STEEL-STR-008	15	Types of analysis as per AISC 360-22 | Design parameters as per IS 800:2007
STEEL-STR-008	16	Effective length factors | Design parameters as per AISC 360-22
STEEL-STR-008	17	Manual design of tapered + slender member | IS 800 | AISC 360 | Comparison with software
STEEL-STR-008	18	Design of connections for PEB structure | RAM connection
STEEL-STR-008	19	Design of base plate | Anchor bolts | Foundation design | Temperature force

ANNEXURE A - Title of sessions for different courses

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Course ID	No.	Title of the session
ONG-STR-002	1	Introduction | Context setting | Different terminology for blast resistant design (Part 1)
ONG-STR-002	2	Terminology for blast resistant design (Part 2) | Overview of UFC 3-340-02
ONG-STR-002	3	Overview of blast in petrochemical facilities | Determination of blast load (Part 1)
ONG-STR-002	4	Understanding of blast load on front wall, side wall, rear wall & roof
ONG-STR-002	5	Calculation of blast load | Step by step calculations | Comparison with chart | Front wall
ONG-STR-002	6	Blast wave length | Calculation of blast load for side wall, roof & rear wall | Typical resistance of different types of structures
ONG-STR-002	7	Brief about modular building | Dynamic material strength | Response criteria
ONG-STR-002	8	Performance requirements | Dynamic analysis methods | Q & A
ONG-STR-002	9	Transformation factors | Case study for shear wall type building | Structural system | Q & A
ONG-STR-002	10	Case study of shear wall building | Analysis & Design of Front wall (Part 1)
ONG-STR-002	11	Case study of shear wall building | Analysis & Design of Front wall (Part 2)
ONG-STR-002	12	Case study of shear wall building | Analysis & Design of Roof diaphragm
ONG-STR-002	13	Case study of shear wall building | Side wall in plane | Roof out of plane | Rebound displacement |
ONG-STR-002	14	Case study of shear wall building | Roof beams | Roof girders | Columns
ONG-STR-002	15	Case study of shear wall building | Base plate, Anchor bolt | Foundations
ONG-STR-002	16	Plate element models for front wall | Comparison with manual calculations | Q & A
ONG-STR-002	17	Numerical integration method | Design of wall spanning in two directions | Overview of modular BRB | Q & A

ANNEXURE B

Link of individual online courses

ANNEXURE B: Link of individual online courses

Following popular courses are included in the packages. Link of the courses is also mentioned to have an idea about main focus area of the program.

WIND-STR-001: Wind force estimation for low rise structures as per IS 875 (Part 3) : 2015
Link: https://sqveconsultants.com/wind-str-001

WIND-STR-002: Wind force estimation for TALL structures as per IS 875 (Part 3) : 2015
Link: https://sqveconsultants.com/wind-str-002

EQ-STR-002: Learn concepts of earthquake resistant design
Link: https://sqveconsultants.com/eq-str-002

EQ-STR-003: Stiffness modifiers and software applications
Link: https://sqveconsultants.com/eq-str-003

EQ-STR-004: Types of analysis for earthquake resistant design | ETABS | STAAD Pro
Link: https://sqveconsultants.com/eq-str-004

STAAD-STR-001: Basic to Advanced training for STAAD Pro
Link: https://sqveconsultants.com/staad-str-001

ETABS-STR-002: Learn ETABS with fundamentals of structural engineering
Link: https://sqveconsultants.com/etabs-str-002

DYN-STR-001: Design of Machine Foundations
Link: https://sqveconsultants.com/dyn-str-001

RCC-STR-001: Design of RCC structures
Link: https://sqveconsultants.com/rcc-str-001

STEEL-STR-001: Decode IS 800:2007 along with software applications in STAAD Pro | RAM connection
Link: https://sqveconsultants.com/steel-str-001

STEEL-STR-005: Design of steel structures as per AISC 360-22 | STAAD Pro
Link: https://sqveconsultants.com/steel-str-005

STEEL-STR-006: Design of connections for steel structures | EUROCODE 3 | AISC 360 | IS 800 : 2007 | RAM connection software Link: https://sqveconsultants.com/steel-str-006

STEEL-STR-007: Design of PEB structures as per IS 800:2007 (Part 1)| STAAD Pro | RAM Connection| RCDC
Link: https://sqveconsultants.com/steel-str-007

STEEL-STR-008: Design of PEB structures with cranes | IS code | Comparison with American code
Link: https://sqveconsultants.com/steel-str-008

ONG-STR-001: Design of pipe-rack for Oil and Gas industry as per American standards | STAAD Pro | RAM connection | RCDC Link: https://sqveconsultants.com/ong-str-001

ONG-STR-002: Blast resistant design of buildings for Oil & Gas industry | SDOF model | Manual calculations
Link: https://sqveconsultants.com/ong-str-002

RCC-STR-002: Design of RCC Liquid retaining structures as per IS codes | STAAD Pro
Link:https://sqveconsultants.com/rcc-str-002

RCC-STR-003: Foundation Engineering (Part 1) | STAAD Pro | RCDC | SAFE | ETABS
Link:https://sqveconsultants.com/rcc-str-003

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