



Module Presenter's Manual

for

Bootstrap and jQuery

*Effective from: June 2017
Ver. 1.0*

Amendment Record

Version No.	Effective Date	Change	Replaced Pages
1.0	June 2017	New	-

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1. Introduction

At the end of this module, student will be able to:

- Learn Bootstrap and set up Bootstrap
- Learn Plug-ins, templates and programming in Bootstrap
- Understand jQuery
- Learn Selectors, functions, widgets in jQuery
- Learn Responsive web layout in Bootstrap
- Learn Headers and classes in Bootstrap
- Build Webpages using Bootstrap and jQuery

2. Information on Session Allocation

Module	Theory Hrs.	Lab Hrs.	Total Hrs.
BSTRAP	8	8	16








3. Module Deliverables available on OnlineVarsity




To aid the learning process, following are the deliverables

Student Deliverables:

1. Learner's Guide (eBook)

Resources available on OnlineVarsity for Students:

Icons	Feature - Description/Functionality
	Download Book - Student has the option to download the subject related e-book and read offline.
	Glossary - Student can access a list of subject related specialized words with their definitions.
	FAQ - Student can access frequently asked questions and their answers.
	Show Me How - Student can view a step-wise simulation/demonstration of the module related topics.
	Practice 4 Me - Student can test and evaluate their understanding of module related topics.
	Work Assignments - Student can solve scenario based lab assignments (Hands-on). The faculty will evaluate and give their feedbacks.
	Download Source code/Files – Student can download courseware related source files.

	References - Student can access additional subject related material for reading.
	Feedback - Student can provide feedback on the course material.
	Ask to Learn – Student can submit subject related technical queries. Queries submitted will be directed to the particular course coordinator/head.

4. Week-wise Session Schedule

- A session has duration of 2 hrs.

Wk	Day 1	Day 2	Day 3	Day 4
1	Session 1 BSTRAP – T1	Session 2 BSTRAP – L1	Session 3 BSTRAP – T2	Session 4 BSTRAP – L2
2	Session 5 BSTRAP – T3	Session 6 BSTRAP – L3	Session 7 BSTRAP – T4	Session 8 BSTRAP – L4

T – Theory Session

L – Lab Session

5. Session Coverage

The table below details out the contents of each session.

Session No.	Session Title	Session Details	Deliverables' Mapping
1	BSTRAP – T1	<p>All the topics as listed below from Session 1 and Session 2 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> book should be covered in this session.</p> <p><u>Session 1 – Basics of Bootstrap</u></p> <ul style="list-style-type: none"> ➤ Describe Bootstrap ➤ Explain the basic concepts of Bootstrap ➤ Describe the process of setting up Bootstrap ➤ Outline the file structure and the default source code in Bootstrap ➤ Use Bootstrap with CSS and JS ➤ Describe the significance of Bootstrap templates <p><u>Session 2 – Understanding Programming in Bootstrap</u></p> <ul style="list-style-type: none"> ➤ Use different Bootstrap components ➤ Write programs in Bootstrap ➤ Apply CSS and JavaScript to Bootstrap components 	<p>Developing Responsive Websites with Bootstrap & JQuery</p> <p>SG – Session 1 & 2 XP – Session 1 & 2 TG – Session 1 & 2</p>
2	BSTRAP – L1	<p>All the workshops from Session 1 and Session 2 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> course should be covered in this session.</p>	<p>Developing Responsive Websites with Bootstrap & JQuery (OnlineVarsity)</p> <p>Session 1,2</p>

Session No.	Session Title	Session Details	Deliverables' Mapping
3	BSTRAP – T2	<p>All the topics as listed below from Session 3 and Session 4 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> book should be covered in this session.</p> <p><u>Session 3 – Basics of jQuery</u></p> <ul style="list-style-type: none"> ➤ Explain the basics of jQuery and its usage with Bootstrap ➤ Outline selectors and functions in jQuery ➤ Describe JSON and its usage in jQuery ➤ Explain conversions to JSON ➤ Describe the concept of event delegation and its usage in jQuery <p><u>Session 4 – Functions, Widgets, Plugins in jQuery</u></p> <ul style="list-style-type: none"> ➤ Describe various types of functions in jQuery ➤ Explain use of AJAX in jQuery ➤ Elucidate the callback concept in jQuery ➤ Describe implementation and use of various controls such as widgets and datatables in jQuery 	<p>Developing Responsive Websites with Bootstrap & JQuery</p> <p>SG – Session 3 & 4 XP – Session 3 & 4 TG – Session 3 & 4</p>
4	BSTRAP – L2	<p>All the workshops from Session 3 and Session 4 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> course should be covered in this session.</p>	<p>Developing Responsive Websites with Bootstrap & JQuery (OnlineVarsity)</p> <p>Session 3,4</p>

Session No.	Session Title	Session Details	Deliverables' Mapping
5	BSTRAP – T3	<p>All the topics as listed below from Session 5 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> book should be covered in this session.</p> <p><u>Session 5 – Creating Bootstrap Responsive Layout</u></p> <ul style="list-style-type: none"> ➤ Describe how bootstrap helps in achieving responsiveness ➤ Explain the grid system ➤ Outline the use of Jumbotron component ➤ Describe the use of various typography classes ➤ Describe creation of simple responsiveness pages with Bootstrap 	<p>Developing Responsive Websites with Bootstrap & JQuery</p> <p>SG – Session 5 XP – Session 5 TG – Session 5</p>
6	BSTRAP – L3	<p>All the workshops from Session 5 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> course should be covered in this session.</p>	<p>Developing Responsive Websites with Bootstrap & JQuery (OnlineVarsity)</p> <p>Session 5</p>
7	BSTRAP – T4	<p>All the topics as listed below from Session 6 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> book should be covered in this session.</p> <p><u>Session 6 – Creating Responsive Webpages Using Bootstrap and jQuery</u></p> <ul style="list-style-type: none"> ➤ Describe the role of media queries in achieving responsiveness in Bootstrap ➤ Understand the use tables in Bootstrap ➤ Understand the use tabs in a well in Bootstrap ➤ Describe how to customize Bootstrap ➤ Explain how to create a Website using Bootstrap and jQuery 	<p>Developing Responsive Websites with Bootstrap & JQuery</p> <p>SG – Session 6 XP – Session 6 TG – Session 6</p>

Session No.	Session Title	Session Details	Deliverables' Mapping
8	BSTRAP – L4	All the workshops from Session 6 of <i>Developing Responsive Websites with Bootstrap & JQuery</i> course should be covered in this session.	Developing Responsive Websites with Bootstrap & JQuery (OnlineVarsity) Session 6

6. Library References

➤	Jump Start Bootstrap by Syed Fazle Rahman
➤	Mastering Bootstrap 4 by Benjamin Jakobus and Jason Marah
➤	jQuery In Action, 3ed (MANNING) by Bear Bibeault, Yehuda Katz, Aurelio De Rosa, Dave Methvin, John Resig

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