

LAB MANUAL

OF

Responsive Web Page Design (430705)

SEMESTER – 3

Student Name : Shah Smit Y.

Enrollment No. : 216090307039

Division : A

Term Date : __/__/__ TO __/__/__



COMPUTER ENGINEERING DEPARTMENT
C. U. SHAH POLYTECHNIC - SURENDRANAGAR

CERTIFICATE



This is to certify that Mr./Ms. _____,

Enrollment No: _____, of ____ Semester of Diploma in
Computer Engineering Program has completed the term work
satisfactorily in subject: _____

(Subject Code: _____) for Academic Year: ____ as prescribed in
curriculum.

Date of Submission: ____/____/____

Subject In-charge,
CE Department,
CUSP, Surendranagar

Head of Department
CE Department,
CUSP, Surendranagar

VISION

- Produce competent diploma computer engineers for the society.

MISSION

Chapter 1 **Provide outcome based quality education.**

Chapter 2 **Inculcate soft skills and ethical values**

Chapter 3 **Motivate entrepreneurship and employability skills.**

PEOs (Programme Educational Objective)

- Students will be able to apply knowledge of basic science, mathematics and computer science in their professional field.
- Students will be able to fulfil meets of software industry, understand technical specification, design and provide optimal solutions which are beneficial for society.
- Students will practice the profession with ethics, morals and leadership to relate engineering to welfare.
- Students will be able to adapt to the evolving technical challenges and changing career opportunities.

PSOs (Programme Specific Outcomes)

- Able to develop computer programs in the areas related to system software, web designing and application development.

- Able to assemble the computer system peripherals and maintain the hardware & networking devices.

POs (Programme Outcomes)

Students are expected to know and be able to achieve following POs after completion of current diploma program:

- 1. Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- 2. Problem analysis:** Identify and analyze well-defined engineering problems using codified standard methods.
- 3. Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- 4. Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- 5. Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
- 6. Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
- 7. Life-long learning:** Ability to analyze individual needs and engage in updating in the context of technological changes.

COMPETENCY

The purpose of this course is to help the student to attain the following industry identified competency through Bootstrap Framework experiences:

- Use Bootstrap Framework to build aesthetic responsive web pages that work uniformly in different devices (desktops, tablets and mobile) and operative platforms.

COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge and the relevant soft skills associated with the identified competency are to be developed in the student for the achievement of the following COs:

CO No.	CO Statement
C01	Prepare environment for Bootstrap framework for first time use.
C02	Build different webpages layouts adhering to all platforms and sizes.
C03	Apply reusable bootstrap components to design effective user-friendly web pages.
C04	Develop interactive features rich web pages using Bootstrap jQuery plug-ins.

COs-POs/PSOs MAPPING

Semester: 5	COMPUTER MAINTENANCE AND TROUBLESHOOTING (3350701)								
Course	P01	P02	P03	P04	P05	P06	P07	PS01	PS02
Outcomes	Basic & Discipline specific knowledge	Problem Analysis	Design/ development of solutions	Engineering Tools, Experimentation & Testing	Engineering practices for society, sustainability & environment	Project Management	long learning		
C01: Prepare environment for Bootstrap framework for first time use.	2	-	-	1	-	-	-	1	-
C02: Build different webpages layouts adhering to all platforms and sizes.	2	1	1	1	-	-	1	1	-
C03: Apply reusable bootstrap components to design effective user-friendly web pages.	2	2	2	2	1	-	1	2	-
C04: Develop interactive features rich web pages using Bootstrap jQuery plug-ins.	2	1	1	2	1	1	1	2	-

Index

Sr. No	AIM	Related Course Outcome (CO)	Page Number	Date	Sign
UNIT - 1 Introduction to jQuery and Bootstrap Framework					
1	Install Bootstrap framework and understand various tags, attributes of HTML and other necessary files to make responsive web page.	CO1			
2	Design web page that shows department name, college name at center of web page by using bootstrap framework and without using bootstrap framework.	CO1			
UNIT - 2 Bootstrap Grid					
3	Display student information content on responsive web page by using container and container-fluid classes.	CO2			
4	Use offset column, reordering column and Nesting column to create responsive web page for given format.	CO2			
5	Create responsive web page of your class time table by using bootstrap grid system.	CO2			
6	Use bootstrap typography to create responsive web page on given blog topic.	CO2			
7	Design responsive web page for student registration form using bootstrap form layout, form control, bootstrap buttons.				
UNIT - 3 Bootstrap Components					
8	Create various types of menus using bootstrap menu components such as right aligned dropdown menu, drop up menu, adding headers of each item etc. and glyphs components.	CO3			
9	Design responsive web page that shows odd (sem1, sem3, sem5) and even (sem2, sem4, sem6) semester consider as menu, courses of each semester as submenu using button groups and button toolbar component.	CO3			
10	Use different bootstrap input groups components to create responsive webpage for job application or any other kind of application.	CO3			

11	Use Navigation tabs/Pills to create responsive web page for summarize of all individual units of any one course.	C03			
12	Use Nav bar component to create responsive fixed to top menu design includes logo, menu, drop down menu, form input elements such as sign-up button, search mechanism etc. And fixed to bottom menu design contains footer information.	C03			
13	Create responsive web page of education website using bootstrap breadcrumb, pagination, labels/badge, Jumbotron/page header, thumbnail components.	C03			
14	Following tasks to be performed using bootstrap progress bars component. A) Creating progress bars B) Adding label to progress bars C) Creating multi-color, stripped and animated progress bars D) Changing value of progress bar dynamically using JavaScript	C03			
15	Use media, rounded media, Nested media object to create responsive web page for all family members in hierarchical order.	C03			
16	Create responsive webpage of various service provider information using bootstrap panel component, List group component, various alert messages and show message after bootstrap alert has been closed.	C03			
UNIT – 4 Bootstrap Plug-Ins					
17	Design a smooth page transition between homepage, about and contact us page using bootstrap transition plugin.	C04			
18	Design a webpage with different modal dialog for “Save record confirmation”, “Delete record confirmation” using model dialog plugin of bootstrap.	C04			
19	Design news story page to demonstrate usage of Scrollspy for multiple section, Tooltip for different photos, Collapsible and popover plugins of bootstrap.	C04			
20	Design animated photo gallery page using Carousel bootstrap plugin with minimum seven photos.	C04			
21	Develop advanced responsive website with minimum Five to seven pages on any of following domains (Tourism, Hospitality, Airline reservation, Medical, E commerce etc.)	C04			

RUBRICS FOR ASSESSMENT OF PERFORM TYPE EXPERIMENTS

Sr No.	Sample Performance Indicators for the PrOs	Weightage in %
RPE-1	Prepare of experimental setup	20
RPE-2	Operate the equipment setup or circuit	20
RPE-3	Follow safe practices measures	10
RPE-4	Record observations correctly	20
RPE-5	Interpret the result and conclude	30
Total		100

RUBRICS FOR ASSESSMENT OF STUDY TYPE EXPERIMENTS

Sr No.	Sample Performance Indicators for the PrOs	Weightage in %
RSE-1	Understanding of experiment	15
RSE-2	Proper explanation of experiment circuit or component	15
RSE-3	Proper experiment writing	20
RSE-4	Awareness regarding experiment (Application, Advantages, and Disadvantages etc.)	30
RSE-5	Interpret the questions and answers	20
Total		100

EVALUATION SHEET

Practical No.	RPE-1 / RSE -1	RPE-2 / RSE -2	RPE-3 / RSE -3	RPE-4 / RSE -4	RPE-5 / RSE -5	Total Marks [10]	Sign of Faculty
	2 Marks	2 Marks	1 Marks	2 Marks	3 Marks		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							

Practical-2

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Prac 2</title>

  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLWZJEdK2Kadq2F9CUG65"
crossorigin="anonymous">

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
kenU1KFdBIe4zVF0s0G1M5b4hcxpyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"
crossorigin="anonymous"></script>

  <style>
    body {background-color:skyblue;}
    .center{
      text-align:center;
      font-family:'Times New Roman', Times, serif;
      font-size: 45px;
    }
    h1{
      text-align:center;
      font-family:cursive;
      text-decoration:underline;
    }
  </style>
</head>

<body>

  <h1>Without Using Bootstrap</h1> <br>
  <p class = 'center'>C.U Shah Polytechnic</p>
  <p class = 'center'>Computer Department</p>
  <br> <br> <br>

  <h1>With Using Bootstrap</h1> <br>
```

```
<div class = 'container' style = "border: 2px solid; width:440px; font-  
family: 'Times New Roman', Times, serif;">  
  <p style = 'font-size: 40px;'>C.U Shah Polytechnic</p>  
  <p style = "font-size: 40px;">Computer Department</p>  
</div>  
</body>  
</html>
```

Output:-

Without Using Bootstrap

C.U Shah Polytechnic

Computer Department

With Using Bootstrap

C.U Shah Polytechnic

Computer Department

Practical-3

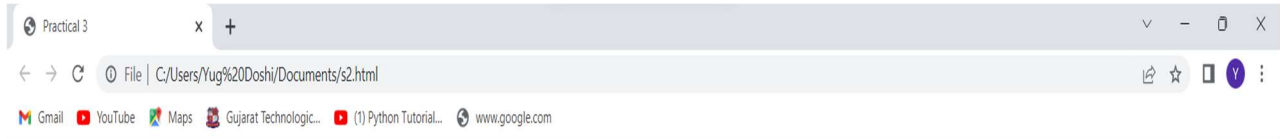
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Practical 3</title>

  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65"
crossorigin="anonymous">

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
kenU1KFdBIe4zVF0s0G1M5b4hcxpyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"
crossorigin="anonymous"></script>
</head>

<body>
  <br><h1 style = "text-align: center; text-decoration: underline; font-
family:'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans',
Arial, sans-serif;">Without using Container Class</h1><br>
  <div class = "container-fluid" style = "border: 2px solid aqua;">
    <h2>Student Information :</h2>
    <p>Name:- Shah Smit</p>
    <p>Enrollment number:- 216090307039</p>
  </div>
  <br>
  <h1 style = "text-align: center; text-decoration: underline;text-
decoration: underline; font-family:'Trebuchet MS', 'Lucida Sans Unicode',
'Lucida Grande', 'Lucida Sans', Arial, sans-serif;">Using Container
Class</h1><br>
  <div class = "container" style = "border: 2px solid aquamarine;">
    <h2>Student Information :</h2>
    <p>Name:- Shah Smit</p>
    <p>Enrollment number:- 216090307039</p>
  </div>
</body>
</html>
```

Output



Without using Container Class

Student Information :

Name:- Shah Smit

Enrollment number:- 216090307039

Using Container Class

Student Information :

Name:- Shah Smit

Enrollment number:- 216090307039

Practical-4

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Practical 4 - RWD</title>
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-
1BmE4kWBq78iYhFtdvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min
.js"
  integrity="sha384-
ka7Sk0GlIn4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
crossorigin="anonymous"></script>
</head>

<body>
  <h2 class=" text-secondary" style="text-align: center;">Shah Smit(39)</h2>
  <h2 style="color:royalblue; text-align:center;">Responsive
Columns</h2><br>
  <div class="container-fluid">
    <div class="row">
      <div class="col-sm-4 col-md-3">
        <h3 style="background-color:skyblue;text-align:center; border:
2px solid;">
          One Of Three Columns.
        </h3>
      </div>
      <div class="col-sm-4 col-md-5">
        <h3 style="background-color:aqua;text-align:center; border:
2px solid;">
          One Of Three Columns.
        </h3>
      </div>
      <div class="col-sm-4 col-md-4">
        <h3 style="background-color:aquamarine;text-align:center;
border: 2px solid;">
          One Of Three Columns.
        </h3>
      </div>
    </div>
  </div>
</body>
```

```
</html>
```

Output:-

Shah Smit(39)
Responsive Columns

One Of Three
Columns.

One Of Three
Columns.

One Of Three
Columns.

Practical-5

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Practical 5</title>

  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65"
crossorigin="anonymous">

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
kenU1KFdBIe4zVF0s0G1M5b4hcxpyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"
crossorigin="anonymous"></script>

  <style>
    p{
      text-align:center;
      color:black;
      font-weight:bold;
    }
  </style>
</head>
<body>

  <h1 style = "text-align:center; text-decoration:underline;">Time
Table</h1>
  <br>
  <div class = "container">
    <div class = "row">
      <div class = "col-2" style = "background-color: skyblue; border:2px
solid black; height: 40px;">
        <p>Time</p>
      </div>

      <div class = "col-2" style = "background-color: skyblue; border:2px
solid black; height: 40px;">
        <p>Monday</p>
      </div>

      <div class = "col-2" style = "background-color: skyblue; border:2px
solid black; height: 40px;">
```

```

        <p>Tuesday</p>
    </div>

    <div class = "col-2" style = "background-color: skyblue; border:2px
solid black; height: 40px;">
        <p>Wednesday</p>
    </div>

    <div class = "col-2" style = "background-color: skyblue; border:2px
solid black; height: 40px;">
        <p>Thursday</p>
    </div>

    <div class = "col-2" style = "background-color: skyblue; border:2px
solid black; height: 40px;">
        <p>Friday</p>
    </div>
</div>

<div class = "row">
    <div class = "col-2" style = " background-color: skyblue; border:2px
solid black; height: 40px;">
        <p>09:30 to 10:30</p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p></p>
    </div>

    <div class = "col-2" style = "border:2px solid black; border-
bottom:none; height: 40px;">
        <p>RDBMS: NC - 104
            (UNP)
        </p>
    </div>

    <div class = "col-2" style = "border:2px solid black;border-
bottom:none; height: 40px;">
        <p>DSA : NC - 104
            (SRB)
        </p>
    </div>

    <div class = "col-2" style = "border:2px solid black;border-
bottom:none; height: 40px;">
        <p></p>
    </div>

    <div class = "col-2" style = "border:2px solid black;border-
bottom:none; height: 40px;">
        <p>PYTHON : NC -107

```

```

        (NVL)
    </p>
</div>
</div>

<div class = "row">
    <div class = "col-2" style = " background-color: skyblue; border:2px
solid black; height: 40px;">
        <p>10:30 to 11:30</p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p>DSA (SRB) - NC - 108A</p>
    </div>

    <div class = "col-2" style = "border: 2px solid black; border-
top:none; height: 40px;">
        <p></p>
    </div>

    <div class = "col-2" style = "border:2px solid black;border-top:none;
height: 40px;">
        <p></p>
    </div>

    <div class = "col-2" style = "border:2px solid black;border-top:none;
height: 40px;">
        <p></p>
    </div>

    <div class = "col-2" style = "border:2px solid black;border-top:none;
height: 40px;">
        <p></p>
    </div>
</div>

<div class = "row">
    <div class = "col-2" style = "background-color:skyblue; text-
align:center; height:40px; border:2px solid black;">
        <p>11:30 To 12:30</p>
    </div>

    <div class = "col-2" style = "border: 2px solid black; border-bottom:
none; height: 40px;">
        <p>RDBMS: NC - 104
            (UNP)</p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p>DSA (SRB) -NC - 108A</p>
    </div>

```

```

        <div class = "col-2" style = "border:2px solid black; height: 40px;
border-bottom:none;">
            <p>BOS : NC - 104
                (SSP)</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>DSA (SRB) -NC - 108A</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;
border-bottom:none;">
            <p>DSA : NC - 104
                (SRB)</p>
        </div>
    </div>

    <div class = "row">
        <div class = "col-2" style = "background-color:skyblue; border:2px
solid black; height: 40px;">
            <p>12:30 To 1:30</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; border-top:none;
height: 40px;">
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>PYTHON (NVL)-NC-108A</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; border-top:none;
height: 40px;">
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>BOS (SSP) - NC - 108A</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; border-top:none;
height: 40px;">
        </div>
    </div>

    <div class = "row">
        <div class = "col-2" style = "background-color: skyblue; border: 2px
solid black; height: 30px;">
            <p>1:30 To 2:10</p>
        </div>

```

```

        <div class = "col-10" style = "border:2px solid black; height: 30px;">
            <p>Break Time</p>
        </div>
    </div>

    <div class = "row">
        <div class = "col-2" style = "background-color: skyblue; border: 2px
solid black; height: 40px;">
            <p>2:10 To 3:10</p>
        </div>

        <div class = "col-2" style = "border: 2px solid black; border-bottom:
none; height: 40px;">
            <p>RWD : NC - 107
                (NJR)
            </p>
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>BOS (SSP) - NC - 108A</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>RDBMS (UNP)-NC-108A</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>RDBMS(UNP)-NC-108A</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>RDBMS(UNP)-NC-108A</p>
        </div>
    </div>

    <div class = "row">
        <div class = "col-2" style = "background-color: skyblue; border: 2px
solid black; height: 40px;">
            <p>3:10 To 4:10</p>
        </div>

        <div class = "col-2" style = "border:2px solid black; border-top:none;
height: 40px;">
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p></p>
        </div>

        <div class = "col-2" style = "border:2px solid black; height: 40px;">
            <p>BOS(SSP)-NC-108A</p>
        </div>
    </div>

```

```

    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p>PYTHON(NVL)-NC-108A</p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p></p>
    </div>
</div>

<div class = "row">

    <div class = "col-2" style = "background-color: skyblue; border: 2px
solid black; height: 40px;">
        <p>4:10 To 5:10</p>
    </div>

    <div class = "col-2" style = "border: 2px solid black; border-bottom:
none; height: 40px;">
        <p>PYTHON : NC - 107
            (NVL)
        </p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p></p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p>PYTHON(NVL)-NC-108A</p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p></p>
    </div>

    <div class = "col-2" style = "border:2px solid black; height: 40px;">
        <p></p>
    </div>
</div>

<div class = "row">
    <div class = "col-2" style = "background-color: skyblue; border: 2px
solid black; height: 40px;">
        <p>5:10 To 6:10</p>
    </div>

    <div class = "col-2" style = "border:2px solid black; border-top:none;
height: 40px;">
    </div>

```

```

<div class = "col-2" style = "border:2px solid black; height: 40px;">
    <p></p>
</div>

<div class = "col-2" style = "border:2px solid black; height: 40px;">
    <p></p>
</div>

<div class = "col-2" style = "border:2px solid black; height: 40px;">
    <p></p>
</div>

<div class = "col-2" style = "border:2px solid black; height: 40px;">
    <p></p>
</div>
</div>
</body>
</html>

```

Output:-

Time Table

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:30 to 10:30		RDBMS: NC - 104 (UNP)	DSA : NC - 104 (SRB)		PYTHON : NC -107 (NVL)
10:30 to 11:30	DSA (SRB) - NC - 108A				
11:30 To 12:30	RDBMS: NC - 104 (UNP)	DSA (SRB) -NC - 108A	BOS : NC - 104 (SSP)	DSA (SRB) -NC - 108A	DSA : NC - 104 (SRB)
12:30 To 1:30		PYTHON (NVL)-NC-108A		BOS (SSP) - NC - 108A	
1:30 To 2:10	Break Time				
2:10 To 3:10	RWPD : NC - 107 (NJR)	BOS (SSP) - NC - 108A	RDBMS (UNP)-NC-108A	RDBMS(UNP)-NC-108A	RDBMS(UNP)-NC-108A
3:10 To 4:10			BOS(SSP)-NC-108A	PYTHON(NVL)-NC-108A	
4:10 To 5:10	PYTHON : NC - 107 (NVL)		PYTHON(NVL)-NC-108A		
5:10 To 6:10					