MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATIONS, MUMBAI-400 051.

<table>
<tr><td>1</td><td>Name of Syllabus</td><td>C. C In Road Construction
(304107)</td></tr>
<tr><td>2</td><td>Max .No of Student</td><td>25 Student</td></tr>
<tr><td>3</td><td>Duration</td><td>6 Month</td></tr>
<tr><td>4</td><td>Type</td><td>Part Time</td></tr>
<tr><td>5</td><td>No Of Days / Week</td><td>6 Days</td></tr>
<tr><td>6</td><td>No Of Hours /Days</td><td>4 Hrs</td></tr>
<tr><td>7</td><td>Space Required</td><td>Open space = 800 Sq feet
Class Room = 200 Sq feet
TOTAL = 1000 Sq feet</td></tr>
<tr><td>8</td><td>Entry Qualification</td><td>S.S.C. pass</td></tr>
<tr><td>9</td><td>Objective Of Syllabus/ introduction</td><td>To know construction stages of Road.
To have knowledge of construction of culvert small bridge.
To knowledge of Road Survey.</td></tr>
<tr><td>10</td><td>Employment Opportunity</td><td>1) Self Employment :- Work as Depty. Contractor for Road or village Road.
2) Site Supervisor or Road work for construction /Maintenance.</td></tr>
<tr><td>11</td><td>Teacher’s Qualification</td><td>I.T.I. Passed in Experienced & skilled person in road construction with H.S.C. Vocational in Bldg. Maint.</td></tr>
<tr><td>12</td><td>Training System</td><td>Training System Per Week
<table>
<tr><td>Theory</td><td>Practical</td><td>Total</td></tr>
<tr><td>6 Hours</td><td>18 Hours</td><td>24 Hours</td></tr>
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<tr><td>13</td><td>Exam. System</td><td>
<table>
<tr><th>Sr. No.</th><th>Paper Code</th><th>Name of Subject</th><th>TH/PR</th><th>Hours</th><th>Max. Marks</th><th>Min. Marks</th></tr>
<tr><td>1</td><td>30410711</td><td>Road Engineering</td><td>TH-1</td><td>3 hrs</td><td>100</td><td>35</td></tr>
<tr><td>2</td><td>30410712</td><td>Road Construction</td><td>TH-2</td><td>3 hrs</td><td>100</td><td>35</td></tr>
<tr><td>3</td><td>30410721</td><td>Road Engineering</td><td>PR-1</td><td>3 hrs</td><td>100</td><td>50</td></tr>
<tr><td>4</td><td>30410722</td><td>Road Construction</td><td>PR-2</td><td>3 hrs</td><td>100</td><td>50</td></tr>
<tr><td></td><td></td><td>Total</td><td></td><td></td><td>400</td><td>170</td></tr>
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Sr. No.	**Theory –I – ROAD ENGINEERING**
1)	Road Engg. –Types of roads , types of highways, classification based on traffic volume cross section of Highway .
2)	Material used in road construction , such as grill, gravel , boulder , course aggregates bitumen , concrete etc. precaution to be taken in handling of materials .
3)	Surveying & leveling for road , the instruments used & their opportunities the modes of measurement & recording the measurement contour map
4)	Alignment of road preparation of plan cross section ,profile & other types of drawing necessary for locating road components.
5)	Traffic Volume study of traffic volume controlling tools, signs & signals used in road engineering.

Theory -II - ROAD CONSTRUCTION
Construction of Roads –Stages involved in construction of various types of roads, materials equipments & other resources of road.
Drainage of Road – Study of Profile of road surface nature of subsoil ,foundation conditions , types of terrain through which road traverses cross drains various types of drainage system for hill side wads .
Maintenance & repair of roads.
Construction of bridges. Location of Bridges ,importance of hydraulic data ,water way , Free board values for different types of bridges types of bridges commonly used in road construction .
Misc.culvert & their types, causeways & their classifications, inspection of road.
Application of computer for data collection & record .

Practical -I - ROAD ENGINEERING
Practical regarding of the various types of roads , highways. Exercises involving cross section of Highway .
Detail study of materials manufacturing , availability material handling .
Practical regarding of the surveying & leveling taken reading measurement , practical of contour map.
Preparation road plan , cross section , types of drawing.
Study of traffic volume , use of tools signs in road Engg.

Sr. No.	**Practical –II ROAD CONSTRUCTION**
1)	Study of various types of roads ,materials equipments.
2)	Study of profile of road surface , type of drainage system, types of subsoil foundation .
3)	Preventive Maintenance of the roads & repairs.
4)	Practical regarding the Construction of bridge, importance of hydraulic data, waterway , free board , study of types of bridges in road construction.
5)	Study of culvert & their types , inspection of roads.
6)	Study of collection of roads data & record.

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