

# TPS-DRC/JTC

## Class 9 – Syllabus & Learning Resource

<b>Subject</b>	<b>Computer 9<sup>th</sup></b>	<b>Syllabus Till : 31-05-2020</b>		
<b>Syllabus: unit 1, 2</b>				
<b>Unit/ 2 Question Title Topic #</b>	<b>Topic Name</b>	<b>Availability of Learning Resource</b>		
		<b>Video Tutorial Link</b>	<b>Reading Material Reference E-book Page #</b>	
<b>2.1</b>	<b>2.1</b> Introduction to Number System	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>34</b>
	<b>2.1.1</b> Decimal	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>34</b>
	<b>2.1.2</b> Binary	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>34</b>
	<b>2.1.3</b> Hexadecimal	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>34</b>
<b>2.2</b>	<b>2.2</b> Number system conversion	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>35</b>
	<b>2.2.1</b> Decimal to binary and Binary to Decimal	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>35</b>
	<b>2.2.2</b> Decimal to Hexadecimal and Hexadecimal to Decimal	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>36</b>
	<b>2.2.3</b> Hexadecimal to Binary and Binary to Hexadecimal	<a href="https://www.youtube.com/watch?v=L2zsmYaI5ww">https://www.youtube.com/watch?v=L2zsmYaI5ww</a>		<b>37</b>
<b>2.3</b>	<b>2.3</b> Memory and Data Storage	<a href="https://www.youtube.com/watch?v=TQCr9RV7twk">https://www.youtube.com/watch?v=TQCr9RV7twk</a>		<b>39</b>
	<b>2.3.1</b> Memory	<a href="https://www.youtube.com/watch?v=TQCr9RV7twk">https://www.youtube.com/watch?v=TQCr9RV7twk</a>		<b>39</b>
	<b>2.3.2</b> Data Representation in Computer Memory	<a href="https://www.youtube.com/watch?v=rsigXiINIPo">https://www.youtube.com/watch?v=rsigXiINIPo</a>		<b>40</b>
	<b>2.3.3</b> Storage Devices	<a href="https://www.youtube.com/watch?v=OsEDJM9NuGA">https://www.youtube.com/watch?v=OsEDJM9NuGA</a>		<b>43</b>
<b>2.4</b>	<b>2.4</b> Measurement of Size of Computer Memory	<a href="https://www.youtube.com/watch?v=1pYzS5C0Tkg">https://www.youtube.com/watch?v=1pYzS5C0Tkg</a>		<b>43</b>
<b>2.5</b>	<b>2.5</b> Boolean Algebra	<a href="https://www.youtube.com/watch?v=EPJf4owqwdA">https://www.youtube.com/watch?v=EPJf4owqwdA</a>		<b>44</b>
	<b>2.5.1</b> Boolean Proposition	<a href="https://www.youtube.com/watch?v=EPJf4owqwdA">https://www.youtube.com/watch?v=EPJf4owqwdA</a>		<b>44</b>
	<b>2.5.2</b> Truth Table	<a href="https://www.youtube.com/watch?v=R8Ob6RFX1qE">https://www.youtube.com/watch?v=R8Ob6RFX1qE</a>		<b>44</b>
	<b>2.5.3</b> Logic Operators (AND,OR,NOT)	<a href="https://www.youtube.com/watch?v=R8Ob6RFX1qE">https://www.youtube.com/watch?v=R8Ob6RFX1qE</a>		<b>45</b>
	<b>2.5.4</b> Truth Table	<a href="https://www.youtube.com/watch?v=R8Ob6RFX1qE">https://www.youtube.com/watch?v=R8Ob6RFX1qE</a>		<b>46</b>
	<b>2.5.5</b> Laws of Boolean Algebra	<a href="https://www.youtube.com/watch?v=EPJf4owqwdA">https://www.youtube.com/watch?v=EPJf4owqwdA</a>		<b>47</b>

<b>Unit 1</b>	<b>Topic Name</b>	<b>Video Tutorial Link</b>	<b>Reading Material Reference</b>
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<b>1</b>	Overview of Chapter 1	<a href="https://www.youtube.com/watch?v=VgryTUt04Dk">https://www.youtube.com/watch?v=VgryTUt04Dk</a>	<b>Page 2</b>
<b>1.1</b>	Defining a Problem	<a href="https://www.youtube.com/watch?v=0JIFXEsVjQI">https://www.youtube.com/watch?v=0JIFXEsVjQI</a>	<b>Page 2</b>
<b>1.2</b>	Understanding a Problem	<a href="https://www.youtube.com/watch?v=SH3vfv_m5iQ&amp;t=2s">https://www.youtube.com/watch?v=SH3vfv_m5iQ&amp;t=2s</a>	<b>Page 3</b>
<b>1.3</b>	Planning, candid & Best Solution	<a href="https://www.youtube.com/watch?v=0wQLtgxh8gg&amp;t=19s">https://www.youtube.com/watch?v=0wQLtgxh8gg&amp;t=19s</a>	<b>Page 4,5,6</b>
<b>1.4</b>	Flowcharts	<a href="https://www.youtube.com/watch?v=37UM-BHeBt4">https://www.youtube.com/watch?v=37UM-BHeBt4</a>	<b>Page 6,7,8</b>
<b>1.5</b>	Example 1 to 6 of Flowcharts.	<a href="https://www.youtube.com/watch?v=-Ie0vPbxIww">https://www.youtube.com/watch?v=-Ie0vPbxIww</a>	<b>Page 9, 10</b>
<b>1.6</b>	Example 7 to 10 of Flowcharts.	<a href="https://www.youtube.com/watch?v=PEb80WDRr_s&amp;t=2s">https://www.youtube.com/watch?v=PEb80WDRr_s&amp;t=2s</a>	<b>Page 10 to 13</b>
<b>1.7</b>	Repeating Steps in Flowcharts+ Example 11 and 12	<a href="https://www.youtube.com/watch?v=WiPEY6nEKqs">https://www.youtube.com/watch?v=WiPEY6nEKqs</a>	<b>Page 14 to 15</b>
<b>1.8</b>	Algorithm	<a href="https://www.youtube.com/watch?v=W9tCEhJt0co&amp;t=95s">https://www.youtube.com/watch?v=W9tCEhJt0co&amp;t=95s</a>	<b>Page 15,16</b>
<b>1.9</b>	Algorithm Examples 1 to 9	<a href="https://www.youtube.com/watch?v=9LVJP0qwNL4&amp;t=83s">https://www.youtube.com/watch?v=9LVJP0qwNL4&amp;t=83s</a>	<b>Page 17 to 21</b>
<b>1.10</b>	Efficiency of Algorithm +Difference b/w Algorithm and a Flowchart	<a href="https://drive.google.com/file/d/1PiNq2R52ITpxfdFhg1bMS4O53jCk9E0a/view?usp=sharing">https://drive.google.com/file/d/1PiNq2R52ITpxfdFhg1bMS4O53jCk9E0a/view?usp=sharing</a>	<b>Page 21 to 24</b>
<b>1.11</b>	Test data and its types	<a href="https://drive.google.com/file/d/1PiNq2R52ITpxfdFhg1bMS4O53jCk9E0a/view?usp=sharing">https://drive.google.com/file/d/1PiNq2R52ITpxfdFhg1bMS4O53jCk9E0a/view?usp=sharing</a>	<b>Page 24 to 26</b>
<b>1.12</b>	Verification and validation	<a href="https://drive.google.com/file/d/1EkAimUkuvFFen99oa0FOz8P7UCUSVtQ-/view?usp=sharing">https://drive.google.com/file/d/1EkAimUkuvFFen99oa0FOz8P7UCUSVtQ-/view?usp=sharing</a>	<b>Page 26, 27</b>
<b>1.13</b>	Identification and correction of Errors	<a href="https://drive.google.com/file/d/1z3zTurrTILPw1N_Bu7vSZB9hHzYWHe4/view">https://drive.google.com/file/d/1z3zTurrTILPw1N_Bu7vSZB9hHzYWHe4/view</a>	<b>Page 27 to 29</b>