

# SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

## LESSON-PLAN

Class: B.Sc (cs)2nd YEAR

Semester:3rd

Subject: Object oriented design and C++( paper:3.2)

Session: 2021-22

Lecture Number	Topic
1	Procedural Language Introduction
2	OOP'S & its characteristics
3	Features of OOP'S
4	Concepts of OOPs
5	Polymorphism & Encapsulation
6	Intro to C++
7	Syntax and Data types
8	Variable
9	String
10	Function
11	Namespace and Exception
12	Operators
13	Flow control
14	Recursion
15	Array & pointer
16	Structure
17	Revision & test
18	Class in detail

<b>19</b>	<b>Access specifiers</b>
<b>20</b>	<b>Constructor and its role</b>
<b>21</b>	<b>Type of constructor</b>
<b>22</b>	<b>Continue..</b>
<b>23</b>	<b>Constructor overloading</b>
<b>24</b>	<b>Destructor and its role, comparison between constructor and destructor</b>
<b>25</b>	<b>Static member Function and Member Variable</b>
<b>26</b>	<b>Dynamic memory allocation</b>
<b>27</b>	<b>New and delete operator</b>
<b>28</b>	<b>Pointer and its manipulation</b>
<b>29</b>	<b>Copy constructor</b>
<b>30</b>	<b>This pointer</b>
<b>31</b>	<b>Manipulators</b>
<b>32</b>	<b>REVISION AND TEST</b>
<b>33</b>	<b>Inheritance and its types</b>
<b>34</b>	<b>Continue..</b>
<b>35</b>	<b>Overloading and overriding</b>
<b>36</b>	<b>Abstract class</b>
<b>37</b>	<b>Ambiguity in Multiple Inheritance</b>
<b>38</b>	<b>Function overloading</b>
<b>39</b>	<b>Virtual function</b>
<b>40</b>	<b>Static function</b>

<b>41</b>	<b>Virtual class</b>
<b>42</b>	<b>Friend function</b>
<b>43</b>	<b>Continue..</b>
<b>44</b>	<b>Continue...</b>
<b>45</b>	<b>Revision</b>
<b>46</b>	<b>Exception Handling</b>
<b>47</b>	<b>Blocks explanation</b>
<b>48</b>	<b>Continue..</b>
<b>49</b>	<b>Unexpected Exceptions</b>
<b>50</b>	<b>User defined Exceptions</b>
<b>51</b>	<b>Continue..</b>
<b>52</b>	<b>Resource Capture and Release</b>
<b>53</b>	<b>Continue</b>
<b>54</b>	<b>Template basics</b>
<b>55</b>	<b>Types of template</b>
<b>56</b>	<b>Function template</b>
<b>57</b>	<b>Class template</b>
<b>58</b>	<b>Implementation of templates</b>
<b>59</b>	<b>Namespace</b>
<b>60</b>	<b>String</b>
<b>61</b>	<b>Iterators</b>
<b>62</b>	<b>Hashes</b>

<b>63</b>	<b>I/ Stream &amp; its types</b>
<b>64</b>	<b>Continue..</b>
<b>65</b>	<b>REVISION TILL EXAMS</b>

**Hemlata**  
**(Asst Prof. in CS)**