**Lahore College for Women University, Lahore**

**Object oriented Programming Lecture details**

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| Lectures  | Topic  | Link |
| Lecture 1 | Introduction  | <https://www.youtube.com/watch?v=_4B0iEy-m5M&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz> |
| Lecture 2 | Starting to OOP  | <https://www.youtube.com/watch?v=00HwPSyPYdk&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=2> |
| Lecture 3 | Abstraction and Inheritance | <https://www.youtube.com/watch?v=m8LRhrN0qvU> |
| Lecture 4 | Introduction to Generalization and Specialization | <https://www.youtube.com/watch?v=MJ5f8iA9XBE> |
| Lecture 5 | Object-Oriented Modeling | <https://www.youtube.com/watch?v=yxBixolHQQY> |
| Lecture 6 | Polymorphism in OO Model | <https://www.youtube.com/watch?v=4pIdLjlDG74> |
| Lecture 7 | Introduction to Objects and Classes (cont...) | <https://www.youtube.com/watch?v=gkVGew9aQVw> |
| Lecture 8 | Constructors | <https://ocw.vu.edu.pk/Videos.aspx?cat=Computer+Science%2fInformation+Technology+&course=CS304> |
| Lecture 9 | Destructors | <https://www.youtube.com/watch?v=bR8dUNEEZpE> |
| Lecture 10 | Accessor Functions and "this" Pointer | <https://ocw.vu.edu.pk/Videos.aspx?cat=Computer+Science%2fInformation+Technology+&course=CS304> |
| Lecture 11 | Constant data members and Static Variables | <https://ocw.vu.edu.pk/Videos.aspx?cat=Computer+Science%2fInformation+Technology+&course=CS304> |
| Lecture 12 | Constant data members, Static Variables and Array of objects | <https://ocw.vu.edu.pk/Videos.aspx?cat=Computer+Science%2fInformation+Technology+&course=CS304> |
| Lecture 13 | new" Operator, Getter and Setter | <https://ocw.vu.edu.pk/Videos.aspx?cat=Computer+Science%2fInformation+Technology+&course=CS304> |
| Lecture 14 | Composition | <https://ocw.vu.edu.pk/Videos.aspx?cat=Computer+Science%2fInformation+Technology+&course=CS304> |
| Lecture 15 | Composition, Aggregation and Friend Functions | <https://www.youtube.com/watch?v=wDsM3wG9nMo> |
| Lecture 16 | Operator overloading | <https://www.youtube.com/watch?v=hjrtoJ4Plnc> |
| Lecture 17 | Operator overloading (cont1...) | <https://www.youtube.com/watch?v=xL9-A17QyTs> |
| Lecture 18 | Operator overloading (cont2...) | <https://www.youtube.com/watch?v=Hte7NA142-4> |
| Lecture 19 | Operator overloading (cont3...) | <https://www.youtube.com/watch?v=Q4kxGDoXZLA&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=20&t=0s> |
| Lecture 20 | Operator overloading (cont4...) | <https://www.youtube.com/watch?v=1ALn30zR0Co&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=20> |
| Lecture 21 | Operator overloading (cont5...) | <https://www.youtube.com/watch?v=szhMDvqc2G8&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=21> |
| Lecture 22 | Inheritance | <https://www.youtube.com/watch?v=CMBGFqDafvc&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=22> |
| Lecture 23 | Inheritance (cont1...) | <https://www.youtube.com/watch?v=5utTPOZmQug&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=23> |
| Lecture 24 | Inheritance (cont2...) | <https://www.youtube.com/watch?v=LXg4x5Sf8mw&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=24> |
| Lecture 25 | Overriding | <https://www.youtube.com/watch?v=8oOLEaXHbdw&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=25> |
| Lecture 26 | Inheritance (cont3...) | <https://www.youtube.com/watch?v=r7UiLjIK670&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=26> |
| Lecture 27 | Inheritance (cont4...) | <https://www.youtube.com/watch?v=wn2tIM8Fgtg&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=27> |
| Lecture 28 | Polymorphism | <https://www.youtube.com/watch?v=Au0hbcuKGBE&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=28> |
| Lecture 29 | Abstraction | <https://www.youtube.com/watch?v=v2OT2HtjPHQ&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=29> |
| Lecture 30 | Polymorphism (cont..) | <https://www.youtube.com/watch?v=V06SuEaIWqs&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=30> |
| Lecture 31 | Inheritance | <https://www.youtube.com/watch?v=AcQ5tbX6an8&list=PLfXqU8lq0Xi-tyiUobM_mWoh50uci9wUz&index=31> |
| Lecture 32 | Function overloading  | Word file with example is in folder named “function overloading” |
| Lecture 33 | Composition. Composition Vs. Inheritance. Composition examples. | Folder with name “Composition ”  |
| Lecture 34 | Friend functions.  | <https://www.youtube.com/watch?v=oLOos_555eM> |
| Lecture 35 | Friend classes. | https://www.youtube.com/watch?v=noRJK8wU3BI |
| Lecture 36 | Friend classes cont ... | <https://www.youtube.com/watch?v=6jN_EVogZAA> |
| Lecture 37 | Friendship and different properties. | <https://www.youtube.com/watch?v=YY5tb58yF0w> |
| Lecture 38 | Inline functions  | <https://www.youtube.com/watch?v=goCR5qav4wU> |
| Lecture 39 | Techniques for error handling | https://www.youtube.com/watch?v=L5NRPTaVANQ&list=PLfXqU8lq0Xi-tyiUobM\_mWoh50uci9wUz&index=43 |
| Lecture 40 | Techniques for error handling cont (...) | https://www.youtube.com/watch?v=Zt3fkHS\_jDQ&list=PLfXqU8lq0Xi-tyiUobM\_mWoh50uci9wUz&index=44 |
| Lecture 41 | Techniques for error handling cont (...) | https://www.youtube.com/watch?v=DrZ\_8TQkBq0&list=PLfXqU8lq0Xi-tyiUobM\_mWoh50uci9wUz&index=45 |