



Reference Material

Note: The reference number in square brackets points to reading material number. E.g. [1] points to 1. *Object Oriented Analysis and Design with Applications 3rd Edition*

- For course books and study material, refer to OOP course in <http://jsag.ggn.nagarro.com/home/courses.jsp>

Course Pathway – 20 Hrs.

#	Topics	Hrs.	Description	Must Read	Optional
1	Getting Started	4	<ul style="list-style-type: none">Know what object oriented programming is.	[1] – Chapter #2 -> Object-Oriented Programming	[4], [5], [7], [2] – What is Object Oriented Programming
2	Abstraction	3	<ul style="list-style-type: none">Understand the fundamentals of Abstraction	[1] – Chapter #2 -> The Meaning of Abstraction	[2], [9], [10]
3	Objects- States and Behavior	3	<ul style="list-style-type: none">Have a clear understanding on Objects	[1] – Chapter #3 -> What Is and What Isn't an Object	[2]-Objects and classes, [12]
4	Encapsulation	3	<ul style="list-style-type: none">Binding the data members and member functions	[1] – Chapter #2 -> The Meaning of Encapsulation	[11]
5	Inheritance	4	<ul style="list-style-type: none">"is-a" hierarchy, multiple inheritance, code reuse	[1] – Chapter #2 -> The Meaning of Hierarchy	[2], [8]
6	Polymorphism	3	<ul style="list-style-type: none">Learn different aspects of polymorphism	[1] – Chapter #3 -> Polymorphism	[2], [6]

Book and Study Material

Pick Book and Study material from below given location:

- Course Book -*
 - Object Oriented Analysis and Design with Applications 3rd Edition
- Study Material –*
 - OOP2 from Univ KwaZulu-Natal



JV – 114 OOP – Course Pathway

Further Reading

Pick content from below given location:

- **Video Content**

3. http://www.youtube.com/watch?v=3bMsY5a7cBo&playnext=1&list=PLBB98163F47DEB7C1&feature=results_main

- **Tutorial**

4. <http://www.codeproject.com/Articles/22769/Introduction-to-Object-Oriented-Programming-Concept>
5. <http://www.kbcafe.com/articles/OOP.Concepts.pdf>
6. http://en.wikipedia.org/wiki/Polymorphism_in_object-oriented_programming
7. http://en.wikipedia.org/wiki/Object-oriented_programming
8. [http://en.wikipedia.org/wiki/Inheritance_\(object-oriented_programming\)](http://en.wikipedia.org/wiki/Inheritance_(object-oriented_programming))
9. [http://en.wikipedia.org/wiki/Abstraction_\(computer_science\)#Abstraction_in_object_oriented_programming](http://en.wikipedia.org/wiki/Abstraction_(computer_science)#Abstraction_in_object_oriented_programming)
10. <http://www.mymindleaks.com/article/object-oriented-programming-abstraction.html>
11. [http://en.wikipedia.org/wiki/Encapsulation_\(object-oriented_programming\)](http://en.wikipedia.org/wiki/Encapsulation_(object-oriented_programming))
12. <http://staff.science.uva.nl/~heck/JAVAcourse/ch2/s1.html>