Bachelor of Computer Applications

The details of experiential learning are described in this document. Kindly refer to the respective pages as shown in the tables below for the courses offered in various academic sessions.

Year 2018-19

Course Title	Year of Offering	Name of Students	Page no
ADVANCED PROGRAMMING USING C++	2018	Tanya, Hemant	2
PROGRAMMING USING VISUAL BASIC	2018	Riya Juneja, Shubham	3
WEB DESIGNING USING ADVANCED TOOLS	2019	Pallavi Saini, Ankit	4
ADVANCED PROGRAMMING WITH VISUAL BASIC	2019	Chetna Madaan, Hitesh	5

Year 2017-18

Course Title	Year of Offering	Name of Students	Page no
ADVANCED PROGRAMMING USING C++	2017	Upanshu, Yashashvi Verma	2
PROGRAMMING USING VISUAL BASIC	2017	Sneh Raghav,Ravi Arora	3
WEB DESIGNING USING ADVANCED TOOLS	2018	Gupreetkaur,Tinkesh	4
ADVANCED PROGRAMMING WITH VISUAL BASIC	2018	Prachi, Devika	5

Year 2016-17

Course Title	Year of Offering	Name of Students	Page no
ADVANCED PROGRAMMING USING C++	2016	Archna Nirwal, Himanshu	2
PROGRAMMING USING VISUAL BASIC	2016	Harshwardhan ,Divya	3
WEB DESIGNING USING ADVANCED TOOLS	2017	Mani Rani , Ravneet Kaur	4
ADVANCED PROGRAMMING WITH VISUAL BASIC	2017	Neha Garg, Nitin	5

Year 2015-16

Course Title	Year of Offering	Name of Students	Page no
ADVANCED PROGRAMMING USING C++	2015	Rumani Arora, Shipra	2
PROGRAMMING USING VISUAL BASIC	2015	Das Rohit, Shivali Sharma	3
WEB DESIGNING USING ADVANCED TOOLS	2016	Rumani Arora, Shipra	4
ADVANCED PROGRAMMING WITH VISUAL BASIC	2016	Das Rohit, Shivali Sharma	5

Year 2014-15

Course Title	Year of Offering	Name of Students	Page no
ADVANCED PROGRAMMING USING C++	2014	Preeti Rani , Suchhi Garg	2
PROGRAMMING USING VISUAL BASIC	2014	Abhishek Jain, Baby Kaur	3
WEB DESIGNING USING ADVANCED TOOLS	2015	Priya Malik , Ridhi Bhutani	4
ADVANCED PROGRAMMING WITH VISUAL BASIC	2015	Abhishek Jain, Baby Kaur	5

Advanced Programming using C++ (BCA-242):

Object oriented programming uses bottom up approach to solve the real life problems using the concepts of class, objects, abstraction, inheritance and polymorphism etc. Most of the languages use the concept of object oriented programming, therefore it is very essential for the student to learn the insights of object oriented programming in C++. **A list of mini projects given to students to complete within stipulated time frame through which they achieve experiential learning in this course.**

Experiential Activity: Project Development

S. no	Project Title	Year	Student Names
01	Operating system using C++	2018	Tanya, Hemant
02	Compiler Design	2017	Upanshu, Yashasvi
03	Railway Reservation System	2016	Archna, Himansu
04	Airline reservation system	2015	Rumani, Shipra
05	Inventory management	2014	Preeti, Suchhi

PROGRAMMING USING VISUAL BASIC (BCA-242):

Like the BASIC programming language, Visual Basic was designed for an easy learning curve. Programmers can create both simple and complex GUI applications. Programming in VB is a combination of visually arranging components or controls on a form, specifying attributes and actions for those components, and writing additional lines of code for more functionality. Since VB defines default attributes and actions for the components, a programmer can develop a simple program without writing much code. Programs built with earlier versions suffered performance problems, but faster computers and native code compilation has made this less of an issue. The ***VB-IDE*** has been highly optimized to support rapid application development ("***RAD***"). It is particularly easy to develop graphical user interfaces and to connect them to handler functions provided by the application. **Student of Bachelor of Computer application have developed small projects as a part of experiential learning.**

Experiential Activity: - Project Development

S. no	Project Title	Year	Student Names
01	FOODZEE	2018	Riya Juneja, Shubha
02	Play station	2017	Sneh Raghav, Ravi Arora
03	Milk Parlour	2016	Harshwardhan, Divya
04	Employee Management System	2015	Das Rohit, Shivali Sharma
05	Student Management System	2014	Abhishek Jain, Baby Kaur

WEB DESIGNING USING ADVANCED TOOLS (BCA-361):

Web engineering focuses on the methodologies, techniques, and tools that are the foundation of Web application development and which support their design, development, evolution, and evaluation. Web application development has certain characteristics that make it different from traditional software, information system, or computer application development.

Web engineering is multidisciplinary and encompasses contributions from diverse areas: systems analysis and design, software engineering, hypermedia/hypertext engineering, requirements engineering, human-computer interaction, user interface, information engineering, information indexing and retrieval, testing, modeling and simulation, project management, and graphic design and presentation. Web engineering is neither a clone nor a subset of software engineering, although both involve programming and software development. While Web Engineering uses software engineering principles, it encompasses new approaches, methodologies, tools, techniques, and guidelines to meet the unique requirements of applications. **Students have developed various Web based applications and achieve experiential learning.**

Experiential Activity: Project Development

S. no	Project Title	Year	Student Names
01	College Networking Site	2019	Pallavi Saini, Ankit
02	Daily Horoscope	2018	Gupreetkaur, Tinkesh
03	Chat Room	2017	Mani Rani, Ravneet Kaur
04	Hotel Website Management System	2016	Rumani Arora, Shipra Dhima
05	Online College Management System	2015	Priya Malik, Ridhi Bhutan

Advanced programming with visual basic (BCA-365):

Like the BASIC programming language, Visual Basic was designed for an easy learning curve. Programmers can create both simple and complex GUI applications. Programming in VB is a combination of visually arranging components or controls on a form, specifying attributes and actions for those components, and writing additional lines of code for more functionality. Since VB defines default attributes and actions for the components, a programmer can develop a simple program without writing much code. Programs built with earlier versions suffered performance problems, but faster computers and native code compilation has made this less of an issue. The ***VB-IDE*** has been highly optimized to support rapid application development ("***RAD***"). It is particularly easy to develop graphical user interfaces and to connect them to handler functions provided by the application. **Student of Department of Computer applications have developed small projects as a part of experiential learning as under**

Experiential Activity:- Project Development

S. no	Project Title	Year	Student Names
01	Notes for u	2019	Chetna Madaan, Hitesh
02	Traffic signal controller in Visual basic	2018	Prachi,Devika
03	Library Management system	2017	Neha Garg, Nitin
04	Check in Checkout system in Visual Basic	2016	Das Rohit, Shivali Sharma
05	Notepad application in visual basic	2015	Abhishek Jain, Baby Kaur