

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು
(ಸ್ವಾಯತ್ತ)
ಮಂಗಳೂರು- 575 003



ST ALOYSIUS COLLEGE
(Autonomous)
P.B.No.720
MANGALURU- 575 003, INDIA
Phone:+91-0824 2449700,2449701
Fax: 0824-2449705
Email: principal_sac@yahoo.com
principal@staloyisius.edu.in
Website: www.staloyisius.edu.in

Re-accredited by NAAC with 'A' Grade - CGPA 3.62

Recognised by UGC as "College with Potential for Excellence"

College with 'STAR STATUS' conferred by DBT, Government of India

3rd Rank in "Swacch Campus" Scheme, by MHRD, Govt of India

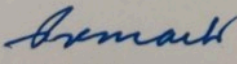
Date: 25-06-2020

NOTIFICATION

Sub: Syllabus of **B.C.A.** under Choice Based Credit System.

- Ref: 1. Decision of the Academic Council meeting held on 09-06-2020 vide
Agenda No: 20(2020-21)
2. Office Notification dated 25-06-2020

Pursuant to the above, the incorporation of CBCS III & IV Semester and introduction of a new paper in V Semester to Syllabus of **B.C.A.** under Choice Based Credit System which was approved by the Academic Council at its meeting held on 09-06-2020 is hereby notified for implementation with effect from the academic year **2020-21**


PRINCIPAL




REGISTRAR

To:

1. The Chairman/Dean/HOD.
2. The Registrar Office
3. Library

NEW SYLLABUS STRUCTURE
For BCA THREE YEARS DEGREE PROGRAMME

1 BCA - 1 SEM

	Subject Code	Subject	Theory Hours/Week	Practical Hours/Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credit
Group - 1	G 601.1	Problem Solving Through C	4	-	3	20	100*	100	2
	G 602.1	Computer Fundamentals & Office Automation	4	-	3	20	100*	100	2
	G 603.1	Discrete Mathematics	4	-	3	20	100*	100	2
	G 601.1P	Lab1 - Problem Solving Through C	-	4	3	20	80	100	2
	G 602.1P	Lab 2 - Computer Fundamentals & Office Automation	-	4	3	20	80	100	2
Group - 2	G 604.1E	Computer Networks	2	-	2	10	40	50	1
	G 605.1E	Cyber Security							
Group - 3		English	4	-	3	20	100*	100	2
		Language - 2	4	-	3	20	100*	100	2
		Environmental Science & Value Education	2	-	2	10	40	50	1
Group - 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

1 BCA - 2 SEM

	Subject Code	Subject	Theory Hours/Week	Practical Hours/Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credit
Group- 1	G 601.2	Microprocessor	4	-	3	20	100*	100	2
	G 602.2	Relational Database Management System	4	-	3	20	100*	100	2
	G 603.2	Computer Oriented Numerical Analysis	4	-	3	20	100*	100	2
	G 601.2P	Lab 1-Microprocessor	-	4	3	20	80	100	2
	G 602.2P	Lab 2 -Relational Database Management System	-	1	3	20	80	100	2
Group- 2	G 604.2E	Introduction to Data Science	2	-	2	10	40	50	1
	G 605.2E	Fundamentals of E-Commerce							
Group - 3		English	4	-	3	20	100*	100	2
		Language - 2	4	-	3	20	100*	100	2
		Indian Constitution & Value Education	2	-	2	10	40	50	1
Group - 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

2 BCA - 3 SEM

	Subject Code	Subject	Theory Hours / Week	Practical Hours / Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credits
Group - 1	G 601.3	Java Programming	4	-	3	20	100*	100	2
	G 602.3	Web Designing	4	-	3	20	100*	100	2
	G 603.3	Operating Systems	4	-	3	20	100*	100	2
	G 601.3P	Lab 1- Java Programming	-	4	3	20	80	100	2
	G 602.3P	Lab 2 - Web Designing	-	4	3	20	80	100	2
Group - 2	G 604.3E	Graphic design	2	-	2	10	40	50	1
	G 605.3E	Internet Of Things							
Group - 3		Language - 1	4	-	3	20	100*	100	2
		Language - 2	4	-	3	20	100*	100	2
		Gender Equity & Value Education	2	-	2	10	40	50	1
Group - 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

2 BCA - 4 SEM

	Subject Code	Subject	Theory Hours / Week	Practical Hours / Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credits
roup - 1	G 601.4	Data Structures using C	4	-	3	20	100*	100	2
	G 602.4	Web Programming using PHP	4	-	3	20	100*	100	2
	G 603.4	Data Mining	4	-	3	20	100*	100	2
	G 601.4P	Lab 1 - Data Structures using C	-	4	3	20	80	100	2
	G 602.4P	Lab 2 -Web Programming using PHP	-	4	3	20	80	100	2
roup - 2	G 604.4E	Hardware and PC Maintenance	2	-	2	10	40	50	1
	G 605.4E	Fundamentals of ICT							
roup - 3		English	4	-	3	20	100*	100	2
		Language - 2	4	-	3	20	100*	100	2
		Human Rights & Value Education	2	-	2	10	40	50	1
roup- 4		EC & CC	2	-	2	50	-	50	1
		Total	26	8	27	210		850	17

3 BCA – 5 SEM

	Subject Code	Subject	Theory Hours/Week	Practical Hours/Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credits
Group - 2	G 601.5	Java 2 Enterprise Edition	4	-	3	20	100*	100	2
	G 602.5	Computer Graphics & Multimedia	4	-	3	20	100*	100	2
	G 603.5	Object Oriented Analysis & Design	4	-	3	20	100*	100	2
	G 604.5	Software Engineering	4	-	3	20	100*	100	2
	G 605.5	Python Programming	4	-	3	20	100*	100	2
	G 606.5	Design and Analysis of Algorithms	4	-	3	20	100*	100	2
	G 601.5P	Lab 1 - Java 2 Enterprise Edition	-	3	3	20	80	100	2
	G 602.5P	Lab 2 - Computer Graphics	-	3	3	20	80	100	2
	G 603.5P	Lab 3 - Python Programming		3	3	20	80	100	2
		Total	24	9	27	180		900	18

3 BCA – 6 SEM

	Subject Code	Subject	Theory Hours / Week	Practical Hours / Week	Duration of Exams (Hrs)	Marks & Credits			
						IA	Exam	Total	Credits
Group 2	G 601.6	Linux and Shell Programming	4	-	3	20	100*	100	2
	G 602.6	Mobile Communication	4	-	3	20	100*	100	2
	G 603.6	Cloud computing	4	-	3	20	100*	100	2
	G 601.6P	Lab: Shell Programming and Wireframes	-	4	3	20	80	100	2
		Total	12	4	12			400	8

Subject Code	Subject	Contact Hours / Week	Practical Hours / Week	Duration of Exams (Hrs)	IA	Exam (Record+ completion)	Marks (presentation + viva)	Total	Credits
G 604.6	Project Dissertation	20	-	3	100	300	100	500	10
	Total							500	10

* Theory exams are conducted for 100 marks and then it is converted to 80 marks.

Total Marks: 5200

Total Credits for the Course (Semester 1 to 6): (17+17+17+17+18+18)=104