KG COLLEGE OF ARTS AND SCIENCE
Affiliated to Bharathiar University and Accredited by NAAC
ISO 9001:2015 Certified Institution
KGiSL Campus, Coimbatore – 641 035

Standard Operating Procedure for Value Added Courses

June, 2021

About the College

KG College of Arts and Science established in the year 2005 is affiliated to Bharathiar University and Accredited by NAAC during 2016-17. It is ISO 9001:2015 certified Institution for Quality Management System by TUV. At present, the college offers Fourteen Undergraduate Programmes, Five Postgraduate Programmes, One five-year Integrated Programme and Research Programmes.

Notable Achievements

- 6th place in All India level SWACHHTA Ranking – 2017.
- Five star on Annual Performance Rating in Institution's Innovation Council (IIC)
- 'Band B Institution' (Rank between 26 – 50) in Atal Ranking of Institutions on Innovation Achievements (ARIIA).
- Top 10 College users by National Library and Information Services Infrastructure for Scholarly Content (N-LIST)
- State of the art infrastructure for teaching, learning and research
- Many MoUs for Value Added Courses with Global Certification.
- Good results and graduation rates all through the years.
- Placement more than of 80% of the graduates in MNCs and other reputed Companies.

Value Added Courses

Emerging developments in technical and professional education need value addition i.e. students must obtain something more than what is provided in the curriculum. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

KG College of Arts and Science offers a wide variety of Value Added Courses on every semester.

The Objectives

- To bridge the skill gaps and make students industry ready.
- To improve employability skills of students with Global certification.
- To explore the possibility of the collaboration with organizations with National / International repute.

Standard Operating Procedure (SOP)

- The course should be offered with the minimum period of 30 hours.

- The course content should beyond the curriculum however it can complement the curriculum to match the industry needs while taking the feedback on curriculum in consensus.

- The course can be offered both online or offline.

- Both UG and PG students are eligible to take the course.

- The course can be developed / modified by the faculty member based on the requirement.

- The courses can be offered by the outside organization by signing MoU.

- Assessment of performance of the students is mandatory for the issue of course completion certificate.

MoUs Signed to Offer Value Added Courses

Programmes	Organization
▪ B.C.A ▪ B.Sc. Computer Science ▪ B.Sc. Information Technology ▪ B.Sc. Computer Technology ▪ B.Sc. Electronics and Communication systems ▪ M.Sc. Software Systems ▪ M.Sc. Computer Science	coursera
▪ B.Com. ▪ B.Com. with Computer Applications ▪ B.Com. with Professional Accounting ▪ B.Com. with Information Technology ▪ B.B.A. ▪ B.B.A with Computer Applications ▪ M.Com. with International Business	GOVERNMENT OF INDIA MSME MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES NSE
B.Sc. Biotechnology	BIOXPLORA Exploring the bio era..
All the programmes	spoken-tutorial Powered by Ministry of Human Resources and Development, Government of India.

Value Added Courses Offered Through Coursera

- Mode of classes and assessment : Online
- Mentors : KGCAS faculty members

Semester	Bouquet of Courses (BCA, B.Sc. CA, B.Sc. IT, B.Sc. CT, M.Sc. SS & CS)		
	Track - 1	Track - 2	Track - 3
	Web Development	Software Development	AI/Big Data/ML/DL/Data Science
I	HTML, CSS and JavaScript for Web Developers (40 hrs.)	Crash course in Python (32 hrs.)	AI for Everyone (3 months)
II	Web design for everybody - basics of web development and coding (6 months)	Using Python to Interact with the Operating System (31 hrs.)	Introduction to Tensor Flow for Artificial Intelligence, Machine Learning, and Deep Learning (30 hrs)
III	Front-End JavaScript Frameworks: Angular (38 hrs.)	Data Science Fundamentals with Python and SQL (30 hrs.)	Big data master certificate (30 hrs.)
IV	Front-End Web UI Frameworks and Tools: Bootstrap 4 (31 hrs.)	Python for Everybody Specialization (30 hrs.)	Machine Learning Master certificate (30 hrs.)
Semester	Courses (B.Sc. ECS)		
I	English for Science, Technology, Engineering and Mathematics (35 hrs.)		
II	Building Arduino robots and devices (30 hrs.)		
III	Digital Systems: From Logic Gates to Processors (30 hrs.)		
IV	An Introduction to Programming the Internet of Things (IoT) Specialization (65 hrs.)		

Value Added Courses Offered Through MSME and NSE

- Mode of classes   : Offline
- Mode of assessment   : Online
- Class handling   : Trainers from MSME and NSE

Semester	Courses Offered B.Com., B.Com. CA, B.Com. IT, B.Com. PA, BBA, BBA CA
I	Financial Markets by NSE **(30 hrs.)**
II	Financial Derivatives by NSE **(30 hrs.)**
III	Stock market Analysis **(30 hrs.)**
IV	Wealth Management by NSE **(30 hrs.)**
V	Income Tax Practitioner by MSME **(40 hrs.)**
VI	GST Practitioner by MSME **(30 hrs.)**

Value Added Courses Offered Through Bioxplora

- Mode of classes & Assessment   : Online
- Class handling   : Trainers from Bioxplora
- Course duration   : 35 hrs.

Semester	Courses Offered (B.Sc. Biotechnology)
I	Chemical databases: CSD, ACD, WDI, ChemBank, hazardous chemical database, PUBCHEM.
II	X-ray Crystallography & Molecular Replacement
III	Bioinformatics
IV	DNA Barcoding - tool to identify illegal wildlife trade. Microbial and plant forensic-investigation methodology. Varietal information system - plant breeding.
V	Medical coding
VI	Drug Discovery and design : Target identification, Target Validation.

Value Added Courses offered through IIT Bombay Spoken tutorial

- Mode of classes and assessment : Online
- Mentors : KGCAS faculty members
- Course duration : 30 hrs.

Programme	Semester	Courses Offered	
B.Sc. Mathematics	III	Latex	
	V	R Programming	
B.Sc. ECS	V	Arduino	
B.Sc. CS, IT, CT & BCA	V	Option 1	Android with kotlin
		Option 2	Joomla
		Option 3	PhP and MySQL
M.Sc. Mathematics	III	Application of Geogebra	
M.Sc. Software Systems	IX	Android with kotlin & Drupal	
M.Sc. Computer Science	III	Android with kotlin	