



## **KG COLLEGE OF ARTS AND SCIENCE**

**Affiliated to Bharathiar University**

**Accredited by NAAC**

**ISO 9001:2015 Certified Institution**

**KGiSL Campus, Coimbatore – 641 035**

### **Criteria I**

#### **Key Indicator – 1.2 - Academic Flexibility**

**1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years**

**1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years**

## **Summary Report of the Add-on Programmes Year wise along with the Outcomes**

## 2021-22 Odd Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	Financial Derivatives	34 Hours	526	<ul style="list-style-type: none"><li>• Students learnt the Strategies to eliminate the risks associated with financial and investment management</li><li>• Imparted the necessary knowledge for pricing and for hedging of derivative securities in real life</li></ul>
2	Banking & Finance	32 Hours	518	<ul style="list-style-type: none"><li>• Imparted the knowledge of policies and practices of commercial banks in India</li></ul>
3	Financial Markets	32 Hours	500	<ul style="list-style-type: none"><li>• Students Learnt about the different types of markets in finance</li><li>• Knowledge of regulatory bodies in finance is developed among the students</li></ul>
4	Programming Foundations with JavaScript, HTML and CSS	30 Hours	474	<ul style="list-style-type: none"><li>• Students learnt the static and dynamic web page designing and the Interactive web page designing</li></ul>
5	PHP and My SQL	30 Hours	246	<ul style="list-style-type: none"><li>• Students learnt to develop the web sites with the backend connectivity Sample web pages designed by students</li></ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
6	API Design and Fundamentals of Google Cloud's Apigee API Platform	30 Hours	217	<ul style="list-style-type: none"> <li>Students learnt to design, build, secure, deploy and manage the API solutions using Google Cloud's Apigee Platform</li> <li>Imparted the knowledge of API life cycle, proxies, Packages and API Platform</li> </ul>
7	Android App Using Kotlin	30 Hours	208	<ul style="list-style-type: none"> <li>Students acquired the knowledge of application development in Android platform</li> <li>Students studied the app development environment of mobile based applications</li> </ul>
8	Coursera : English for Science, Technology, Engineering, and Mathematics	30 Hours	153	<ul style="list-style-type: none"> <li>Students learnt the use receptive skills through reading and listening to acquire good exposure to language and literature</li> </ul>
9	BITS and Bytes of Computer Networking / Fundamentals of Computer Networking	30 Hours	100	<ul style="list-style-type: none"> <li>Students acquired the fundamental knowledge of modern networking technologies and network trouble shooting</li> </ul>
10	Joomla	30 Hours	99	<ul style="list-style-type: none"> <li>Imparted the knowledge of content management in websites</li> </ul>
11	Java for Android	30 Hours	96	<ul style="list-style-type: none"> <li>Students learnt the context of core android components and UI</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
				<ul style="list-style-type: none"> <li>learnt the android studio for app development</li> </ul>
12	Soft Skill	30 Hours	85	<ul style="list-style-type: none"> <li>Learnt to manage emotions, communicate effectively, empathize, motivate, lead a team and socialize.</li> </ul>
13	Drupal	30 Hours	66	<ul style="list-style-type: none"> <li>Imparted the knowledge of content management in websites</li> </ul>
14	Using Python to Interact with the Operating System	30 Hours	58	<ul style="list-style-type: none"> <li>Students learnt the python development environment</li> <li>Learnt the automated system administration</li> </ul>
15	From Data to Insights with Google Cloud Platform Specialization	30 Hours	49	<ul style="list-style-type: none"> <li>Students acquired the knowledge of Bigquery, Machine Learning, Data Visualization (DataViz), SQL Google Cloud Platform and Cloud Computing</li> </ul>
16	Front-End JavaScript Frameworks Overview: Angular	30 Hours	38	<ul style="list-style-type: none"> <li>Students are able to design an interactive web page through front end JavaScript Frameworks, Reactive and TypeScript.</li> </ul>
17	Drug Designing and Discovery Techniques	30 Hours	37	<ul style="list-style-type: none"> <li>Imparted the knowledge of drug designing with the help of online tools</li> </ul>
18	Business Communication	30 Hours	36	<ul style="list-style-type: none"> <li>Students learnt to create the content on their own</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
19	Fundamentals of Network Communication	30 Hours	37	<ul style="list-style-type: none"> <li>Students gained the valuable skills in computer networks (switching, routing), system and network administration</li> </ul>
20	R Programming	30 Hours	32	<ul style="list-style-type: none"> <li>Learnt to write the simple pseudocodes and simple flow charts</li> </ul>
21	Medical Coding	30 Hours	30	<ul style="list-style-type: none"> <li>Imparted the knowledge of medical terminologies</li> </ul>
22	LaTeX	30 Hours	29	<ul style="list-style-type: none"> <li>Students understood the concept of LaTeX commands to mathematical formulae, create tables and printing texts</li> </ul>
23	Web Design Literate Professional	30 Hours	28	<ul style="list-style-type: none"> <li>Students learnt the static and dynamic web page designing and the Interactive web page designing</li> </ul>
24	Arduino	30 Hours	26	<ul style="list-style-type: none"> <li>Students learnt the basic concepts of arduino and microprocessor programming</li> <li>36 projects were designed and exhibited by the students in the Project Expo-21</li> </ul>
25	Cheminformatics	30 Hours	26	<ul style="list-style-type: none"> <li>Students acquired the skills in structural and functional genomics</li> </ul>
26	Introduction to Computers	30 Hours	24	<ul style="list-style-type: none"> <li>Students learnt the basic computer skills</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
27	Digital Systems: From Logic Gates to Processors	30 Hours	19	<ul style="list-style-type: none"> <li>Students learnt to design the small combinational and sequential logic circuits</li> </ul>
28	GeoGebra	30 Hours	10	<ul style="list-style-type: none"> <li>Students understood the concepts of construction of shapes</li> </ul>



  
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## 2021-22 Even Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	JavaScript for Beginners	30 Hours	574	<ul style="list-style-type: none"> <li>• Students learnt to develop the web sites</li> <li>• Learnt the basic concepts of javascript</li> </ul>
2	Blender	30 Hours	367	<ul style="list-style-type: none"> <li>• Students acquired the knowledge of 3D modeling, materials, texturing, lighting, animation and sculpting</li> </ul>
3	Inkscape	30 Hours	244	<ul style="list-style-type: none"> <li>• Students learnt to make diagrams, logos, programmatic marketing materials, web graphics, and even for paper scrapbooking.</li> </ul>
4	Developing Android Apps with Invertor	30 Hours	237	<ul style="list-style-type: none"> <li>• Students learnt the android programming and build fully functional apps for Android devices.</li> </ul>
5	Azure Infrastructure Fundamentals	30 Hours	201	<ul style="list-style-type: none"> <li>• Students learnt the foundational knowledge of cloud services and how those services are provided with Microsoft Azure</li> </ul>
6	Introduction to Computers	30 Hours	114	<ul style="list-style-type: none"> <li>• Students understood the basics of computer and hardwares and the basic services such as google like Gmail and Drive</li> </ul>
7	Introduction to Data Science in Python	30 Hours	101	<ul style="list-style-type: none"> <li>• learnt the basics of python programming environment, including fundamental python programming techniques such as lambdas, reading and manipulating csv files, and the numpy library.</li> </ul>
8	Introduction to SCILAB	30 Hours	85	<ul style="list-style-type: none"> <li>• Students learnt the computation, graphs, illustrations with Scilab</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
9	Mass Media and Journalism	30 Hours	70	<ul style="list-style-type: none"> <li>Students understood the concepts of historical, ethical and current legal framework in mass communication</li> </ul>
10	Content Writing, Public Speaking & Presentation Skill	30 Hours	51	<ul style="list-style-type: none"> <li>Students learnt to create the content on their own</li> </ul>
11	Machine Learning	30 Hours	43	<ul style="list-style-type: none"> <li>Students learnt the machine learning algorithms and apply various reinforcement algorithms to solve real time complex problems</li> </ul>
12	DNA Barcoding	30 Hours	37	<ul style="list-style-type: none"> <li>Students learnt to identify the species by performing data queries</li> <li>Learnt about the molecular marker choices</li> </ul>
13	Building Arduino Robots and Devices	30 Hours	30	<ul style="list-style-type: none"> <li>Students learnt the basic concepts of arduino and microprocessor programming</li> <li>36 projects were designed and exhibited by the students in the Project Expo-21</li> </ul>
14	Drug Design and Discovery	30 Hours	30	<ul style="list-style-type: none"> <li>Imparted the knowledge of drug designing with the help of online tools</li> </ul>
15	Python Programming	30 Hours	26	<ul style="list-style-type: none"> <li>students learnt the python development environment</li> </ul>
16	Hazard Analysis Critical Control Point	30 Hours	25	<ul style="list-style-type: none"> <li>Students understood the various types of hazards</li> <li>Learnt the various diseases caused contamination</li> </ul>



S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
17	An Introduction to the Internet of Things and Embedded Systems	30 Hours	19	<ul style="list-style-type: none"> <li>Imparted the knowledge of Various IoT devices and embedded systems</li> </ul>
18	Soft Skill	30 Hours	18	<ul style="list-style-type: none"> <li>Learnt to manage emotions, communicate effectively, empathize, motivate, lead a team and socialize</li> </ul>
19	Programming Foundation with HTML,CSS and JavaScript & Introduction to Programming using MATLAB	30 Hours	14	<ul style="list-style-type: none"> <li>Students learnt the static and dynamic web page designing</li> <li>Students learnt to write the moderate sized programmes that solve problems involves the manipulation of numbers</li> </ul>
20	Fake News Detection Using Machine Learning, Introduction to Machine Learning & Cyber Threat Intelligence	30 Hours	14	<ul style="list-style-type: none"> <li>Students acquired the knowledge of machine learning algorithms with PyTorch, open source libraries used by leading tech companies in the machine learning field (e.g., Google, NVIDIA, CocaCola, eBay, Snapchat, Uber and many more).</li> </ul>
21	Relational Database Design	30 Hours	13	<ul style="list-style-type: none"> <li>Learnt the basics of database and found the solutions to the basic problem</li> </ul>
22	Introduction to Programming and Animation with Alice	30 Hours	6	<ul style="list-style-type: none"> <li>Learnt how to program in the context of animation, simulation, storytelling, and building short games.</li> </ul>
23	Front-End Web UI Frameworks and Tools: Bootstrap 4	30 Hours	4	<ul style="list-style-type: none"> <li>Students are able to design an interactive web page through front end user interface with bootstrap</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
24	Web design for everybody-basics of web development and coding	30 Hours	3	<ul style="list-style-type: none"> <li>Students are able to design a basic web site</li> </ul>
25	Server side development with node JS, Express and Mango DB	30 Hours	2	<ul style="list-style-type: none"> <li>Acquired the knowledge of server side web site development with front end (Java script) and back end database(Mongo DB)</li> </ul>



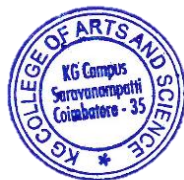
  
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## 2020-21 Even Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	IT Fundamentals / IT Essentials	30 Hours	676	<ul style="list-style-type: none"> <li>• Students understood the working principles of a computer</li> </ul>
2	Software Engineering and Project Management	30 Hours	609	<ul style="list-style-type: none"> <li>• Students understood how the IT industry is working</li> <li>• Learnt to manage the software and its development</li> </ul>
3	Financial Markets	30 Hours	529	<ul style="list-style-type: none"> <li>• Students Learnt about the different types of markets in finance Knowledge of regulatory bodies in finance is developed among the students</li> </ul>
4	Wealth Management	30 Hours	527	<ul style="list-style-type: none"> <li>• Students understood the different investment plans and the risks involved.</li> </ul>
5	GST Practitioner	40 Hours	507	<ul style="list-style-type: none"> <li>• Students learnt the process of GST</li> </ul>
6	Python	40 Hours	368	<ul style="list-style-type: none"> <li>• Students learnt the python development environment</li> </ul>
7	Amazon Web Services (AWS)	40 Hours	154	<ul style="list-style-type: none"> <li>• Imparted the knowledge of of the core AWS services, including compute, network, database, and storage services</li> </ul>
8	MAT LAB	30 Hours	127	<ul style="list-style-type: none"> <li>• Students learnt to write the moderate sized programmes that solve problems involves the manipulation of numbers</li> </ul>
9	CISCO Networking	40 Hours	80	<ul style="list-style-type: none"> <li>• Imparted the knowledge about detailed knowledge of Computer Networks, various protocols used in Communication,</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
				Managing and configuring Cisco Switches and Routers and various routing protocols
10	Soft Skills	30 Hours	69	<ul style="list-style-type: none"> <li>Learnt to manage emotions, communicate effectively, empathize, motivate, lead a team and socialize.</li> </ul>
11	Content Writitng	30 Hours	54	<ul style="list-style-type: none"> <li>Students learnt to create the content on their own</li> </ul>
12	VLSI Designing and Verification	30 Hours	47	<ul style="list-style-type: none"> <li>Students learnt the design, troubleshoot, and simulate assembly C language and Verilog HDL programs</li> </ul>
13	MS Office	30 Hours	34	<ul style="list-style-type: none"> <li>Students learnt the word documents, Excel, PPT presentations</li> </ul>
14	PCB Designing and Fabrication	30 Hours	26	<ul style="list-style-type: none"> <li>Students learnt the step-by-step approach to the development and manufacturing cycle of a printed circuit board</li> </ul>
15	Introduction to R Programming	30 Hours	19	<ul style="list-style-type: none"> <li>Students acquired the knowledge of the basic R programming</li> </ul>
16	Oracle9i: Program with PL/SQL	30 Hours	17	<ul style="list-style-type: none"> <li>Students learnt the learn programming, management, and security issues of working with PL/SQL program units, built-in packages with Oracle, the creation of triggers, and stored procedures.</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
17	C++ Using Cloud Coder	30 Hours	14	<ul style="list-style-type: none"> <li>Students practiced the object-oriented programming concepts and techniques, practice the use of C++ classes and class libraries, arrays, vectors, inheritance and file I/O stream concepts</li> </ul>



  
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## 2019-20 Odd Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	Oracle SQL and PL/SQL Developer	30 Hours	731	<ul style="list-style-type: none"> <li>Students learnt the programming, management, and security issues of working with PL/SQL program units, built-in packages with Oracle, the creation of triggers, and stored procedures.</li> </ul>
2	HTML, XML and Photoshop	30 Hours	613	<ul style="list-style-type: none"> <li>Students learnt the static and dynamic web page designing and the Interactive web page designing</li> <li>Learnt the basics of photoshop</li> </ul>
3	Adobe Illustrator	40 Hours	538	<ul style="list-style-type: none"> <li>Learnt the basics of illustrator</li> </ul>
4	PHP and MYSQL	40 Hours	581	<ul style="list-style-type: none"> <li>Students learnt to develop the web sites with the backend connectivity</li> <li>Sample web pages designed by students</li> </ul>
5	Tally ERP 9	30 Hours	115	<ul style="list-style-type: none"> <li>Imparted the knowledge of accounting and learnt to maintain the accounts</li> </ul>
6	C++ Programming	30 Hours	113	<ul style="list-style-type: none"> <li>Acquired the skills for writing a program in different C++ Integrated Development Environments.</li> </ul>
7	Python Programming	30 Hours	103	<ul style="list-style-type: none"> <li>Students learnt the python development environment</li> </ul>
8	Content Writing, Public Speaking, Presentation Skills	30 Hours	98	<ul style="list-style-type: none"> <li>Students learnt to create the content on their own</li> </ul>
9	Arduino with Sensors and Drives	40 Hours	47	<ul style="list-style-type: none"> <li>Students learnt to develop the programs on arduino</li> </ul>
10	Raspberry pi with IoT	40 Hours	37	<ul style="list-style-type: none"> <li>Student understood the concepts of Pi processing and learnt to develop their own projects with sensors</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
11	Arts of Electronics	40 Hours	34	<ul style="list-style-type: none"> <li>Imparted the knowledge of microcontrollers with practical applications</li> <li>Learnt to develop their own projects with sensors</li> </ul>
12	Photoshop	30 Hours	30	<ul style="list-style-type: none"> <li>Learnt the basics of photoshop</li> </ul>
13	Linux & Shell Scripting	40 Hours	27	<ul style="list-style-type: none"> <li>Students learnt the basic set of commands and editors in the Linux operating system.</li> </ul>
14	Art of Electronics	40 Hours	25	<ul style="list-style-type: none"> <li>Imparted the knowledge of microcontrollers with practical applications</li> <li>Learnt to develop their own projects with sensors</li> </ul>
15	Android Programming	30 Hours	25	<ul style="list-style-type: none"> <li>Students acquired the knowledge of application development in Android platform</li> <li>Students studied the app development environment of mobile based applications</li> </ul>
16	HTML and CSS	40 Hours	6	<ul style="list-style-type: none"> <li>Students learnt the static and dynamic web page designing and the Interactive web page designing</li> </ul>



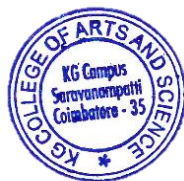
  
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## 2019-20 Even Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	Advance Excel	40 Hours	621	<ul style="list-style-type: none"> <li>Students acquired the knowledge of excel data model</li> </ul>
2	C++ Programming	30 Hours	577	<ul style="list-style-type: none"> <li>Acquired the skills for writing a program in different C++ Integrated Development Environments.</li> </ul>
3	Linux & Shell Scripting	30 Hours	579	<ul style="list-style-type: none"> <li>Students learnt the basic set of commands and editors in the Linux operating system.</li> </ul>
4	Oracle SQL and PL/SQL Developer	40 Hours	324	<ul style="list-style-type: none"> <li>Students learnt the programming, management, and security issues of working with PL/SQL program units, built-in packages with Oracle, the creation of triggers, and stored procedures.</li> </ul>
5	Tally ERP 9	30 Hours	259	<ul style="list-style-type: none"> <li>Imparted the knowledge of accounting and learnt to maintain the accounts</li> </ul>
6	Content Writing, Public Speaking and Presentation Skill	30 Hours	98	<ul style="list-style-type: none"> <li>Students learnt to create the content on their own</li> </ul>
7	Microsoft VB.Net Programming	30 Hours	34	<ul style="list-style-type: none"> <li>Students understood the fundamental skills in utilizing the tools of a visual environment Learnt the database connectivity with the front end</li> </ul>



S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
8	Java Programming	30 Hours	33	<ul style="list-style-type: none"> <li>Students learnt to develop the basic software using java programming</li> </ul>
9	PHP & MYSQL	40 Hours	27	<ul style="list-style-type: none"> <li>Students learnt to develop the web sites with the backend connectivity</li> <li>Sample web pages designed by students</li> </ul>
10	HTML & CSS	40 Hours	14	<ul style="list-style-type: none"> <li>Students learnt the static and dynamic web page designing and the Interactive web page designing</li> </ul>
11	J2EE for Web Applications	30 Hours	6	<ul style="list-style-type: none"> <li>Students learnt to develop the basic software using advanced java programming</li> </ul>



  
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## 2018-19 Odd Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	HTML, XML and Photoshop	30 Hours	694	<ul style="list-style-type: none"> <li>Students learnt the static and dynamic web page designing and the Interactive web page designing</li> <li>Learnt the basics of photoshop</li> </ul>
2	Adobe Illustrator	40 Hours	590	<ul style="list-style-type: none"> <li>Learnt the basics of illustrator</li> </ul>
3	PHP and MYSQL	30 Hours	485	<ul style="list-style-type: none"> <li>Students learnt to develop the web sites with the backend connectivity</li> <li>Sample web pages designed by students</li> </ul>
4	Oracle SQL and PL/SQL	30 Hours	449	<ul style="list-style-type: none"> <li>Students learnt the programming, management, and security issues of working with PL/SQL program units, built-in packages with Oracle, the creation of triggers, and stored procedures.</li> </ul>
5	Microsoft VB.Net Programming	50 Hours	264	<ul style="list-style-type: none"> <li>Students understood the fundamental skills in utilizing the tools of a visual environment</li> <li>Learnt the database connectivity with the front end</li> </ul>
6	Tally ERP 9	30 Hours	188	<ul style="list-style-type: none"> <li>Imparted the knowledge of accounting and learnt to maintain the accounts</li> </ul>
7	Dot Net Programming	30 Hours	114	<ul style="list-style-type: none"> <li>Students acquired the knowledge of developing a console application and the Microsoft Framework Architecture</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
8	MATLAB	30 Hours	106	<ul style="list-style-type: none"> <li>Students learnt to write the moderate sized programmes that solve problems involves the manipulation of numbers</li> </ul>
9	C++ Programming	30 Hours	103	<ul style="list-style-type: none"> <li>Acquired the skills for writing a program in different C++ Integrated Development Environments.</li> </ul>
10	Art of Electronics	40 Hours	50	<ul style="list-style-type: none"> <li>Imparted the knowledge of microcontrollers with practical applications</li> <li>Learnt to develop their own projects with sensors</li> </ul>
11	Arduino with Sensors and Drives	40 Hours	38	<ul style="list-style-type: none"> <li>Students learnt to develop the programs on arduino</li> </ul>
12	Art of Electronics	30 Hours	32	<ul style="list-style-type: none"> <li>Imparted the knowledge of microcontrollers with practical applications</li> <li>Learnt to develop their own projects with sensors</li> </ul>
13	C++ using Cloudcoder	40 Hours	27	<ul style="list-style-type: none"> <li>Students practiced the object-oriented programming concepts and techniques, practice the use of C++ classes and class libraries, arrays, vectors, inheritance and file I/O stream concepts</li> </ul>
14	Basic Android Programming	30 Hours	24	<ul style="list-style-type: none"> <li>Students acquired the knowledge of application development in Android platform</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
				<ul style="list-style-type: none"> <li>Students studied the app development environment of mobile based applications</li> </ul>
15	J2EE for Web Application	40 Hours	18	<ul style="list-style-type: none"> <li>Students learnt to develop the web page using advanced java programming</li> </ul>
16	HTML, CSS and Bootstrap	30 Hours	11	<ul style="list-style-type: none"> <li>Students are able to design an interactive web page through front end user interface with bootstrap</li> </ul>



  
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## 2018-19 Even Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	Advanced Excel	30 Hours	676	<ul style="list-style-type: none"> <li>Students acquired the knowledge of excel data model</li> </ul>
2	C++ Programming	40 Hours	590	<ul style="list-style-type: none"> <li>Acquired the skills for writing a program in different C++ Integrated Development Environments.</li> </ul>
3	Networking	40 Hours	537	<ul style="list-style-type: none"> <li>Imparted the knowledge about detailed knowledge of Computer Networks, various protocols used in Communication</li> </ul>
4	Linux & Shell Scripting	40 Hours	485	<ul style="list-style-type: none"> <li>Students learnt the basic set of commands and editors in the Linux operating system.</li> </ul>
5	Tally ERP 9	30 Hours	361	<ul style="list-style-type: none"> <li>Imparted the knowledge of accounting and learnt to maintain the accounts</li> </ul>
6	Oracle SQL and PL/SQL Developer	40 Hours	290	<ul style="list-style-type: none"> <li>Students learnt the programming, management, and security issues of working with PL/SQL program units, built-in packages with Oracle, the creation of triggers, and stored procedures.</li> </ul>
7	PCB Designing and Fabrication	40 Hours	50	<ul style="list-style-type: none"> <li>Students learnt the step-by-step approach to the development and manufacturing cycle of a printed circuit board</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
8	VLSI Design	40 Hours	37	<ul style="list-style-type: none"> <li>Students learnt the design, troubleshoot, and simulate assembly C language and Verilog HDL programs</li> </ul>
9	PHP & MYSQL	40 Hours	34	<ul style="list-style-type: none"> <li>Students learnt to develop the web sites with the backend connectivity</li> <li>Sample web pages designed by students</li> </ul>
10	Microsoft VB.Net Pogramming	30 Hours	32	<ul style="list-style-type: none"> <li>Students understood the fundamental skills in utilizing the tools of a visual environment</li> <li>Learnt the database connectivity with the front end</li> </ul>
11	Raspberry Pi with IoT	40 Hours	29	<ul style="list-style-type: none"> <li>Student understood the concepts of Pi processing and learnt to develop their own projects with sensors</li> </ul>
12	HTML & CSS	30 Hours	27	<ul style="list-style-type: none"> <li>Students are able to design an interactive web page through front end user interface</li> </ul>
13	J2EE for Web Application	40 Hours	25	<ul style="list-style-type: none"> <li>Students learnt to develop the web page using advanced java programming</li> </ul>



  
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## 2017-18 Odd Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	HTML, XML and Photoshop	30 Hours	601	<ul style="list-style-type: none"> <li>Students learnt the static and dynamic web page designing and the Interactive web page designing</li> <li>Learnt the basics of photoshop</li> </ul>
2	PHP & MYSQL	40 Hours	587	<ul style="list-style-type: none"> <li>Students learnt to develop the web sites with the backend connectivity</li> <li>Sample web pages designed by students</li> </ul>
3	Oracle SQL/PL SQL	40 Hours	466	<ul style="list-style-type: none"> <li>Students learnt the programming, management, and security issues of working with PL/SQL program units, built-in packages with Oracle, the creation of triggers, and stored procedures.</li> </ul>
4	International Financial Reporting Standards	30 Hours	436	<ul style="list-style-type: none"> <li>Students learnt the basics concepts of International Financial and accounting</li> </ul>
5	Adobe Illustrator	40 Hours	315	<ul style="list-style-type: none"> <li>Learnt the basics of illustrator</li> </ul>
6	Photoshop/Photoshop and Illustrator	30 Hours	246	<ul style="list-style-type: none"> <li>Learnt the basics of photoshop / Illustrator</li> </ul>
7	Tally ERP 9	30 Hours	207	<ul style="list-style-type: none"> <li>Imparted the knowledge of accounting and learnt to maintain the accounts</li> </ul>
8	Linux and Shell Programming	40 Hours	155	<ul style="list-style-type: none"> <li>Students learnt the basic set of commands and editors in the Linux operating system.</li> </ul>

<b>S. No.</b>	<b>Name of Add on /Certificate programs offered</b>	<b>Duration of course</b>	<b>Number of Students completing the course in the year</b>	<b>Outcome of the Programme</b>
9	C++ Programming	40 Hours	140	<ul style="list-style-type: none"> <li>Acquired the skills for writing a program in different C++ Integrated Development Environments.</li> </ul>
10	Basics of German Language	30 Hours	130	<ul style="list-style-type: none"> <li>Students learnt to speak fluently in German language</li> </ul>
11	RedHat Linux 6.0	30 Hours	76	<ul style="list-style-type: none"> <li>Students acquired the knowledge of linux administration practically</li> </ul>
12	Android Programming	30 Hours	47	<ul style="list-style-type: none"> <li>Students acquired the knowledge of application development in Android platform</li> <li>Students studied the app development environment of mobile based applications</li> </ul>
13	Art of Electronics	40 Hours	42	<ul style="list-style-type: none"> <li>Imparted the knowledge of microcontrollers with practical applications</li> <li>Learnt to develop their own projects with sensors</li> </ul>
14	Arduino	40 Hours	32	<ul style="list-style-type: none"> <li>Students learnt to develop the programs on arduino</li> </ul>
15	Arduino with Sensors and Drives	40 Hours	30	<ul style="list-style-type: none"> <li>Students learnt to develop the programs on arduino with various sensors</li> </ul>
16	Python Programming	30 Hours	24	<ul style="list-style-type: none"> <li>Students learnt the python development environment</li> </ul>



S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
17	Art of Electronics	40 Hours	14	<ul style="list-style-type: none"> <li>• Imparted the knowledge of microcontrollers with practical applications</li> <li>• Learnt to develop their own projects with sensors</li> </ul>



  
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## 2017-18 Even Semester

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
1	Advanced Excel	40 Hours	605	<ul style="list-style-type: none"> <li>Students acquired the knowledge of excel data model</li> </ul>
2	Linux and Shell Programming / Linux and Shell Scripting	40 Hours	551	<ul style="list-style-type: none"> <li>Students learnt the basic set of commands and editors in the Linux operating system.</li> </ul>
3	C++ Programming	40 Hours	496	<ul style="list-style-type: none"> <li>Acquired the skills for writing a program in different C++ Integrated Development Environments.</li> </ul>
4	GST & E-Filing	30 Hours	434	<ul style="list-style-type: none"> <li>Students learnt the process of GST and the e-filing process</li> </ul>
5	Networking	30 Hours	427	<ul style="list-style-type: none"> <li>Imparted the knowledge about detailed knowledge of Computer Networks, various protocols used in Communication</li> </ul>
6	Oracle SQL	40 Hours	306	<ul style="list-style-type: none"> <li>Students learnt the programming, management, and security issues of working with SQL program units, built-in packages with Oracle, the creation of triggers, and stored procedures.</li> </ul>
7	Tally ERP 9	30 Hours	274	<ul style="list-style-type: none"> <li>Imparted the knowledge of accounting and learnt to maintain the accounts</li> </ul>
8	Basics in German Language	40 Hours	130	<ul style="list-style-type: none"> <li>Students learnt to speak fluently in German language</li> </ul>
9	PCB Designing and Fabrication	40 Hours	42	<ul style="list-style-type: none"> <li>Students learnt the step-by-step approach to the development and manufacturing cycle of a printed circuit board</li> </ul>
10	Python Programming	30 Hours	34	<ul style="list-style-type: none"> <li>Students learnt the python development environment</li> </ul>

S. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year	Outcome of the Programme
11	Linux Programming	40 Hours	33	<ul style="list-style-type: none"> <li>Students learnt the basic set of commands and editors in the Linux operating system.</li> </ul>
12	VLSI Design	40 Hours	30	<ul style="list-style-type: none"> <li>Students learnt the design, troubleshoot, and simulate assembly C language and Verilog HDL programs</li> </ul>
13	Software Testing & Networking	40 Hours	24	<ul style="list-style-type: none"> <li>Students learnt the basic networking and software testing concepts</li> </ul>
14	J2EE for Web Application	40 Hours	18	<ul style="list-style-type: none"> <li>Students learnt to develop the web page using advanced java programming</li> </ul>
15	.Net Programming	30 Hours	14	<ul style="list-style-type: none"> <li>Students acquired the knowledge of developing a console application and the Microsoft Framework Architecture</li> </ul>



  
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