



P.K.R. ARTS COLLEGE FOR WOMEN

(An Autonomous Institution-Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade

Gobichettipalayam – 638 476, Erode District, Tamil Nadu, India Website:

www.pkrarts.org | E.mail: pkroffice@gmail.com | Phone: 04285 - 222128

NAAC

2nd Cycle

Criterion I

Metric 1.1.1

Courses focus on Global, National, Regional and Local Needs Academic Year: 2021-2022

Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2021-2022	MCA	21CAP05A	Mobile Computing			✓	✓	To understand the mobile computing applications, techniques and its environment
2021-2022	MCA	21CAP05B	Business Intelligence			✓	✓	To understand the principles of Business Intelligence.
2021-2022	MCA	21CAP05C	Cloud Computing			✓	✓	To learn about cloud computing technologies, functions and its uses
2021-2022	MCA	21CAP06	Advanced Java Programming – Practical			✓	✓	To enable the students to learn the basic functions, principles and concepts of java programming
2021-2022	MCA	21CAP07	Relational Database Management System– Practical			✓	✓	To enable the students to learn about the concepts of database system and manipulation of data.
2021-2022	MCA	21CAP12A	Artificial Intelligence			✓	✓	To learn about the concepts of artificial intelligence.
2021-2022	MCA	21CAP12D	Virtual Reality Systems			✓	✓	The Proposed Paper offers to explore materials and processes used in immersive virtual reality; show a basic awareness and understanding of historical and theoretical contexts relevant to immersive virtual reality; and demonstrates an understanding of the importance of critical and self-reflective practice.
2021-2022	MCA	21CAP13	Data Structures And Algorithms Using Java- Practical			✓	✓	offers the depth understanding and application knowledge of different data structures, algorithms and their applications using java
2021-2022	MCA	21CAP14	Web Programming - Practical			✓	✓	To enable the students to learn the concepts of web Programming techniques



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2021-2022	MCA	21AEP01	Cyber Security			✓	✓	To understand the basics of cyber security and the security threats in day-to-day activities.
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Courses focus on Global, National, Regional and Local Needs Academic Year: 2021-2022

Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2021-2022	MCA	21CAP16	Machine Learning using Python			✓	✓	This course covers the basic concepts and techniques of Machine Learning and implementation of algorithms using python programming.
2021-2022	MCA	21CAP17	Network Security and Cryptography			✓	✓	To attain the knowledge in basic of network security and various methods in cryptography
2021-2022	MCA	21CAP18A	Internet of Things			✓	✓	This course gives an overview of the basic concepts of building an IoT system and its application in various fields.
2021-2022	MCA	21CAP18B	Soft Computing			✓	✓	To understand the Soft computing architectures, applications and challenges
	MCA	21CAP18D	Research Methodology			✓	✓	To enhance the ethical conduct of research and to gain basic knowledge on research methodologies.
2021-2022	MCA	21CAP19	Data Mining and Big Data Analytics - Practical			✓	✓	To enable the students to learn the concepts of extracting useful data fom data repostories and Big Data Analytics.



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				Local	Regional	National	Global	
2021-2022	MCA	21CAP16	Machine Learning using Python			✓	✓	This course covers the basic concepts and techniques of Machine Learning and implementation of algorithms using python programming.
2021-2022	MCA	21CAP17	Network Security and Cryptography			✓	✓	To attain the knowledge in basic of network security and various methods in cryptography
2021-2022	MCA	21CAP18A	Internet of Things			✓	✓	This course gives an overview of the basic concepts of building an IoT system and its application in various fields.
2021-2022	MCA	21CAP18B	Soft Computing			✓	✓	To understand the Soft computing architectures, applications and challenges
	MCA	21CAP18D	Research Methodology			✓	✓	To enhance the ethical conduct of research and to gain basic knowledge on research methodologies.
2021-2022	MCA	21CAP19	Data Mining and Big Data Analytics - Practical			✓	✓	To enable the students to learn the concepts of extracting useful data from data repositories and Big Data Analytics.

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				Local	Regional	National	Global	
2020-2021	MCA	20CAP03	Research Methodology			✓	✓	To expose the students with the principles, procedures and techniques of research methodology and assist in planning, carrying and implementing a research project
2020-2021	MCA	20CAP06	Python Programming – Practical			✓	✓	To enable the students to develop applications using Python
2020-2021	MCA	20CAP07	Advanced Java - Practical			✓	✓	To enable the students to learn the basic functions, principles and concepts of java programming
2020-2021	MCA	20CAP10	Computer Graphics and Multimedia			✓	✓	To provide an in-depth knowledge of display systems, image synthesis, shape modeling of 2D and 3D applications and to understand basic multimedia concepts like animation and compression.
2020-2021	MCA	20CAP12D	Internet of Things			✓	✓	To enable the students to learn the Data and Knowledge Management and use of Devices in IOT Technology
2020-2021	MCA	20CAP13A	Mobile Computing			✓	✓	To understand mobile computing applications, techniques and environment
2020-2021	MCA	20CAP13C	Cloud Computing			✓	✓	To understand the Cloud computing architectures,



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									applications and challenges
2020-2021	MCA	20CAP14	.NET Programming- Practical			✓	✓		This Course presents the Introduction to .NET programming

Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
020-2021	MCA	20CAP15	Computer Graphics and Multimedia - Practical			✓	✓	This course presents the Object Model, classes and objects, overloading, files, exception handling, OO analysis and 2D and 3D animation techniques with graphic techniques.
2020-2021	MCA	20CAP18B	Soft Computing			✓	✓	To enable the students to become familiar with various Soft Computing Techniques and to gain knowledge on applying soft computing techniques to solve optimization problems
2020-2021	MCA	20CAP19B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2020-2021	MCA	20CAP19C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics.
2020-2021	MCA	20CAP20	Data Mining using R Practical			✓	✓	This course provides hand on experience to Data Mining Using R
2020-2021	MCA	20PECAP24	Multimedia Systems					To enable the students to learn the basic functions, principles and concepts of Object oriented programming, 2D animation techniques and Photoshop tools
2020-2021	MCA	21PEITU01	Software Project Management	✓	✓			To inculcate the knowledge on how to manage a Software Project.



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2020-2021	MCA	20CAP13D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2020-2021	MCA	20CAP18D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.



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Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2020-2021	MCA	20CAP15	Computer Graphics and Multimedia - Practical			✓	✓	This course presents the Object Model, classes and objects, overloading, files, exception handling, OO analysis and 2D and 3D animation techniques with graphic techniques.
2020-2021	MCA	20CAP18B	Soft Computing			✓	✓	To enable the students to become familiar with various Soft Computing Techniques and to gain knowledge on applying soft computing techniques to solve optimization problems
2020-2021	MCA	20CAP19B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2020-2021	MCA	20CAP19C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics.
2020-2021	MCA	20CAP20	Data Mining using R Practical			✓	✓	This course provides hand on experience to Data Mining Using R
2020-2021	MCA	20PECAP24	Multimedia Systems					To enable the students to learn the basic functions, principles and concepts of Object oriented programming, 2D animation techniques and Photoshop tools
2020-2021	MCA	21PEITU01	Software Project Management	✓	✓			To inculcate the knowledge on how to manage a Software Project.
2020-2021	MCA	20CAP13D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2020-2021	MCA	20CAP18D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.

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				Local	Regional	National	Global	
2019-2020	MCA	19CAP17	Research Methodology			✓	✓	To expose the students with the principles, procedures and techniques of research methodology and assist in planning, carrying and implementing a research project
2019-2020	MCA	19CAP20	Python Programming - Practical			✓	✓	This course provide complete knowledge in Python
2019-2020	MCA	19CAP21	Advanced Java - Practical			✓	✓	This course presents the basic concepts of object oriented programming, methods data types, class and objects, packages; overview of JDBC, Overview of Servlet technology
2019-2020	MCA	19CAP23	.NET Programming			✓	✓	To gain an understanding of the Microsoft .NET architecture and implement web applications in asp.net using web forms, including programs that interact with databases.
2019-2020	MCA	19CAP26D	Internet of Things			✓	✓	To enable the students to learn the Data and Knowledge Management and use of Devices in IOT Technology
2019-2020	MCA	19CAP27A	Mobile Computing			✓	✓	To understand mobile computing applications, techniques and environment
2019-2020	MCA	19CAP27C	Cloud Computing			✓	✓	To understand the Cloud computing architectures, applications and challenges
2019-2020	MCA	19CAP28	.NET Programming- Practical			✓	✓	This Course presents the Introduction to .NET programming
2019-2020	MCA	19CAP29	Computer Graphics and Multimedia - Practical			✓	✓	This course presents the Object Model, classes and objects, overloading, files, exception handling, OO analysis and 2D and 3D animation techniques with graphic techniques.
2019-2020	MCA	19SEP01	Cyber Security			✓	✓	To understand the basics of cyber security and the security threats in day-to-day activities.



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				Local	Regional	National	Global	
2019-2020	MCA	19CAP33B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2019-2020	MCA	19CAP33C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics.
2019-2020	MCA	19CAP34	Data Mining using R Practical			✓	✓	This course provides hand on experience to Data Mining Using R
2019-2020	MCA	19CAP27D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2019-2020	MCA	19CAP32D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.



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				Local	Regional	National	Global	
2019-2020	MCA	19CAP33B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2019-2020	MCA	19CAP33C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics.
2019-2020	MCA	19CAP34	Data Mining using R Practical			✓	✓	This course provides hand on experience to Data Mining Using R
2019-2020	MCA	19CAP27D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2019-2020	MCA	19CAP32D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.

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				Local	Regional	National	Global	
2018-2019	MCA	18CAP17	Research Methodology			✓	✓	To expose the students with the principles, procedures and techniques of research methodology and assist in planning, carrying and implementing a research project
2018-2019	MCA	18CAP20	Python Programming - Practical			✓	✓	This course provide complete knowledge in Python
2018-2019	MCA	18CAP21	Advanced Java - Practical			✓	✓	This course presents the basic concepts of object oriented programming, methods data types, class and objects, packages; overview of JDBC, Overview of Servlet technology
2018-2019	MCA	18CAP23	.NET Programming			✓	✓	To gain an understanding of the Microsoft .NET architecture and implement web applications in asp.net using web forms, including programs that interact with databases.
2018-2019	MCA	18CAP26D	Internet of Things			✓	✓	To enable the students to learn the Data and Knowledge Management and use of Devices in IOT Technology
2018-2019	MCA	18CAP27A	Mobile Computing			✓	✓	To understand mobile computing applications, techniques and environment
2018-2019	MCA	18CAP27C	Cloud Computing			✓	✓	To understand the Cloud computing architectures, applications and challenges
2018-2019	MCA	18CAP28	.NET Programming-Practical			✓	✓	This Course presents the Introduction to .NET programming
2018-2019	MCA	18CAP29	Computer Graphics and			✓	✓	This course presents the Object Model, classes and objects, overloading, files, exception handling, OO analysis and 2D



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			Multimedia - Practical					and 3D animation techniques with graphic techniques.
2018-2019	MCA	18SEP01	Cyber Security			✓	✓	To understand the basics of cyber security and the security threats in day-to-day activities.



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Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2018-2019	MCA	18CAP33B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2018-2019	MCA	18CAP33C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics.
2018-2019	MCA	18CAP34	Data Mining using R Practical			✓	✓	This course provides hand on experience to Data Mining Using R
2018-2019	MCA	18CAP27D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2018-2019	MCA	18CAP32D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.



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Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2018-2019	MCA	18CAP33B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2018-2019	MCA	18CAP33C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics.
2018-2019	MCA	18CAP34	Data Mining using R Practical			✓	✓	This course provides hand on experience to Data Mining Using R
2018-2019	MCA	18CAP27D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2018-2019	MCA	18CAP32D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.

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2017-2018	M.C.A	17CAP17	Research Methodology			✓	✓	To expose the students with the principles, procedures and techniques of research methodology and assist in planning, carrying and implementing a research project.
2017-2018	M.C.A	17CAP20	Python Programming - Practical			✓	✓	To enable the students to develop applications using Python
2017-2018	M.C.A	17CAP21	Advanced Java - Practical			✓	✓	To enable the students to learn the basic functions, principles and concepts of java programming
2017-2018	M.C.A	17CAP23	.NET Programming			✓	✓	To gain an understanding of the Microsoft .NET architecture and implement web applications in asp.net using web forms, including programs that interact with databases.
2017-2018	M.C.A	17CAP26D	Internet of Things			✓	✓	To enable the students to learn the Data and Knowledge Management and use of Devices in IOT Technology.
2017-2018	M.C.A	17CAP27A	Mobile Computing			✓	✓	To understand mobile computing applications, techniques and environment
2017-2018	M.C.A	17CAP27C	Cloud Computing			✓	✓	To understand the Cloud computing architectures, applications and challenges
2017-2018	M.C.A	17CAP28	.NET Programming-Practical			✓	✓	To enable the students to learn what is .NET fundamentals, Components & techniques
2017-2018	M.C.A	17CAP29	Computer Graphics and Multimedia - Practical			✓	✓	To enable the students to learn the basic functions, principles and concepts of Object oriented programming, 2D animation techniques and Photoshop tools



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2017-2018	M.C.A	17SEP01	Cyber Security			✓	✓	To understand the basics of cyber security and the security threats in day-to-day activities.
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Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2017-2018	M.C.A	17CAP33B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2017-2018	M.C.A	17CAP33C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics
2017-2018	M.C.A	17CAP34	Data Mining using R Practical			✓	✓	Candidates pursuing this course will be aligned with the current market job requirements in data analytics
2017-2018	M.C.A	17CAP27D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2017-2018	M.C.A	17CAP32D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.



P.K.R. ARTS COLLEGE FOR WOMEN

(An Autonomous Institution-Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade

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NAAC

2nd Cycle

Criterion I

Metric 1.1.1

Courses focus on Global, National, Regional and Local Needs Academic Year: 2017-2018

Year of Syllabus Revision	Programme	Code	Title of the Course	Need				Description
				Local	Regional	National	Global	
2017-2018	M.C.A	17CAP33B	Robotics			✓	✓	To learn about fundamental concepts in robotics and to provide an introductory understanding of robotics to the students.
2017-2018	M.C.A	17CAP33C	Learning Big Data & Hadoop			✓	✓	To introduce the concepts and challenges of big data and focuses on big data handling concepts, R Programming, Map Reduce and Hadoop based analytics
2017-2018	M.C.A	17CAP34	Data Mining using R Practical			✓	✓	Candidates pursuing this course will be aligned with the current market job requirements in data analytics
2017-2018	M.C.A	17CAP27D	Remote sensing and Geomatics for Agriculture and Forestry	✓	✓			This course enables the students to understand the application potentialities of remote sensing data separately and in combination with GIS techniques for Agriculture and Forestry.
2017-2018	M.C.A	17CAP32D	GIS for Land Resource Management	✓	✓			To develop the skills in utilization of technologies of remote sensing, GIS, GPS, etc. in Land Resource Analysis and planning for sustainable development, soil, forest, ecology and agricultural resources management and studies.

P. M. L. S.

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