

Globally recognized Industry certified Micro-credentials

Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
1	Web Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools, Note Pad	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	CSS Pre-processors & Java Script Framework	HTML 5 Application Development (HTML, CSS,JS)	VS Code, Chrome DevTools , Note pad	45 Hours	Associate	5	Stem.org	CSS Pre-processors & Java Script Framework
			3	Adobe XD / Figma	NA	Adobe Photoshop/Adobe Bridge	45 Hours	Associate	5	Stem.org	Adobe XD / Figma
2	Full Stack Java Development Track-1	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Java Programming	OOPs Concepts	Eclipse, IntelliJ IDEA	45 Hours	Associate	5	Pearson VUE -ITS	Java Programming
			3	Servlets ,JSP & Hibernate	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Expert	6	Stem.org	Servlet JSP & Hibernate
			4	MongoDB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Expert	6	IBM	IBM No SQL Mongo DB
3	Full Stack Java Development Track -2	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Java programming	OOPs Concepts	Eclipse, IntelliJ IDEA	45 Hours	Foundation	4	Pearson VUE -ITS	Java
			3	Spring Boot	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Associate	5	Stem.org	Spring Boot
			4	Postgre SQL	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Expert	6	Stem.org	PostGre SQL
4	Full stack Java Cloud Development Track -1	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Java Programming	OOPs Concepts	Eclipse, IntelliJ IDEA	45 Hours	Foundation	4	Pearson VUE -ITS	Java
			3	Servlets & Hibernate	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Associate	5	Stem.org	Servlet , JSP & Hibernate
			4	Mongo DB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	IBM	IBM No SQL Mongo DB
			5	AWS Cloud Foundation	NA	AWS Console, AWS CLI	45 Hours	Expert	6	AWS	AWS cloud practitioner
			6	DevOps	Cloud	AWS Console	45 Hours	Expert	6	IBM	IBM - DevOPs

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5	Full stack Java Cloud Development Track -2	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Java Programming	OOPs Concepts	Eclipse, IntelliJ IDEA	45 Hours	Foundation	4	Pearson VUE -ITS	Java
			3	Spring Boot	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Associate	5	Stem.org	Spring Boot
			4	Postgre SQL	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	Stem.org	PostGre SQL
			5	AWS Cloud Foundation	NA	AWS Console, AWS CLI	45 Hours	Expert	6	AWS	AWS cloud practitioner
			6	DevOPs	Cloud	AWS Console	45 Hours	Expert	6	IBM	IBM - DevOPs
6	Full stack Java Cloud Development Track -3	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Java Programming	OOPs Concepts	Eclipse, IntelliJ IDEA	45 Hours	Foundation	4	Pearson VUE -ITS	Java
			3	Servlets ,JSP & Hibernate	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Associate	5	Stem.org	Servlet , JSP & Hibernate
			4	Mongo DB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	IBM	IBM No SQL Mongo DB
			5	Azure Fundamentals (AZ-900)	NA	AWS Console, AWS CLI	45 Hours	Expert	6	Microsoft Certified Fundamentals	Azure Fundamentals (AZ-900)
			6	DevOPs	Cloud	AWS Console	45 Hours	Expert	6	IBM	IBM - DevOPs
7	Full stack Java Cloud Development Track -4	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Java Programming	OOPs Concepts	Eclipse, IntelliJ IDEA	45 Hours	Foundation	4	Pearson VUE -ITS	Java
			3	Spring Boot	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Associate	5	Stem.org	Spring Boot
			4	Postgre SQL	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	Stem.org	PostGre SQL
			5	Azure	NA	AWS Console, AWS CLI	45 Hours	Expert	6	Microsoft Certified Fundamentals	Azure Fundamentals (AZ-900)
			6	DevOPs	Cloud	AWS Console	45 Hours	Expert	6	IBM	IBM - DevOPs
8	Mobile Application Development Using Kotlin	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Java Programming	OOPS Concepts	Eclipse, IntelliJ IDEA	45 Hours	Foundation	4	Pearson VUE -ITS	Java
			2	Servlets ,JSP& Hibernate	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Associate	5	Stem.org	Servlet , JSP & Hibernate
			3	MongoDB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	IBM	IBM No SQL Mongo DB
			4	Azure (Az-900)	NA	Azure Console	45 Hours	Expert	6	Microsoft Certified Fundamentals	Azure Fundamentals (AZ-900)
			5	Mobile application development using Kotlin	Java Programming	Eclipse, IntelliJ IDEA	45 Hours	Expert	6	Stem.org	Mobile App Development using Kotlin
			6	DevOPs	Cloud	AWS Console	45 Hours	Expert	6	IBM	IBM - DevOPs

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9	Mobile Application Development Using Flutter	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			2	Flask & Django	Python and web development	Flask CLI, Django Admin	45 Hours	Foundation	4	Stem.org	Flask & Django
			3	Postgre SQL	RDBMS	pgAdmin , DB eaver	45 Hours	Foundation	4	IBM	IBM - Pos Gre SQL
			4	AWS Cloud Foundation	Programming Skill	AWS Console, AWS CLI	45 Hours	Associate	5	AWS	AWS cloud practitioner
			5	Mobile application development using Flutter	Java Programming	Android Studio	45 Hours	Expert	6	Stem.org	MobileApp Development using Flutter
			6	DevOPs	Cloud	AWS Console	45 Hours	Expert	6	IBM	IBM - DevOPs
10	Full Stack Python Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			3	Flask & Django	Python and web development	Flask CLI, Django Admin	45 Hours	Associate	5	Stem.org	Flask & Django
			4	MongoDB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	IBM	IBM No SQL Mongo DB
11	Full Stack Python Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			3	Flask & Django	Python and web development	Flask CLI, Django Admin	45 Hours	Associate	5	Stem.org	Ethnotech Academy
			4	Postgre SQL	RDBMS	pgAdmin, DBeaver	45 Hours	Associate	5	Stem.org	PostGre SQL
12	Full stack Python Cloud Development - Track 1	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			3	Flask & Django	Python and web development	Flask CLI, Django Admin	45 Hours	Associate	5	Stem.org	Ethnotech Academy
			4	MongoDB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	IBM	IBM No SQL Mongo DB
			5	Azure (AZ-900)	NA	Azure Portal, Azure CLI	45 Hours	Expert	6	Microsoft Certified Fundamentals	MCF - Azure Data (Dp-900)
			6	DevOPs	Cloud	Azure Console	45 Hours	Expert	6	IBM	IBM - DevOPs

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13	Full stack Python Cloud Development - Track-2	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			3	Flask & Django	Python and web development	Flask CLI, Django Admin	45 Hours	Associate	5	Stem.org	Ethnotech Academy
			4	Postgre SQL	RDBMS	pgAdmin, DBeaver	45 Hours	Associate	5	Stem.org	Postgre SQL
			5	AWS Cloud Foundation	NA	AWS Console, AWS CLI	45 Hours	Expert	6	AWS	AWS cloud practitioner
			6	DevOPs	Cloud	AWS Console	45 Hours	Expert	6	IBM	IBM - DevOPs
14	Data Analytics using R	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	R Programming (R 101)	NA	RStudio, Tidyverse	45 Hours	Foundation	4	IBM	IBM-R101
			2	IBM SQL and Relational Database 101	RDBMS	IBM SQL	45 Hours	Foundation	4	IBM	IBM SQL and Relational Database 101
			3	Tidy verse	R Programming	dplyr, ggplot2	45 Hours	Associate	5	Stem.org	TIDYVERSE
			4	Tidmodels	R Programming	tidymodels, parsnip	45 Hours	Expert	6	Stem.org	TIDYMODELS
15	Cloud data Analytics using R	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	R Programming (R 101)	NA	RStudio, Tidyverse	45 Hours	Foundation	4	IBM	R Programming
			2	IBM SQL and Relational Database 101	RDBMS	IBM SQL	45 Hours	Foundation	4	IBM	IBM SQL and Relational Database 101
			3	Tidy verse	R Programming	dplyr, ggplot2	45 Hours	Associate	5	Stem.org	TIDYVERSE
			4	Tidmodels	R Programming	tidymodels, parsnip	45 Hours	Associate	5	Stem.org	TIDYMODELS
			5	Azure Data (DP-900)	Cloud	Azure Synapse, Data Factory	45 Hours	Expert	6	Microsoft Certified Fundamentals	Azure Data (DP-900)
16	Database Administrator	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	IBM SQL and Relational Database 101	RDBMS	IBM SQL	45 Hours	Foundation	4	IBM	IBM SQL and Relational Database 101
			2	MongoDB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	IBM	IBM No SQL Mongo DB
			3	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Associate	5	Pearson VUE -ITS	Python

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17	Python Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Python Programming	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			3	Flask & Django	Python and web development	Flask CLI, Django Admin	45 Hours	Associate	5	Stem.org	Ethnotech Academy
18	Java Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	HTML 5 Application Development (HTML, CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML 5 Application Development
			2	Java Programming	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	Java
			3	Advance Java (JDBC , Networking , servlets ,JSP)	Java	Jupyter Notebook, PyCharm	45 Hours	Associate	5	Stem.org	Advance Java (JDBC , Networking , servlets ,JSP)
19	Excel Analytics	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Microsoft Excel	NA	Microsoft Excel, Power Query	45 Hours	Associate	5	Microsoft Office Specialist	Microsoft Excel
			2	Microsoft Excel Expert	Excel	Microsoft Excel, Power Query	45 Hours	Expert	6	Microsoft Office Specialist	Microsoft Excel Expert
			3	Data Analytics	Excel	Microsoft Excel, Power Query	45 Hours	Associate	5	Pearson VUE -ITS	IT Specialist
20	Junior Business Analytics using Python	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			2	Microsoft Excel	NA	Microsoft Excel, Power Query	45 Hours	Associate	5	Microsoft Office Specialist	Microsoft Excel
			3	Excel Expert	Excel	Microsoft Excel, Power Query	45 Hours	Associate	5	Microsoft Office Specialist	Microsoft Excel Expert
			4	Tableau	Python	Tableau Desktop, Tableau Public	45 Hours	Foundation	4	Stem.org	Tableau
			5	Power Platform	Excel	Power BI, Power Automate	45 Hours	Associate	5	Microsoft Certified Fundamentals	Microsoft Power Platform (PL-900)

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21	Junior Business Analytics using Excel	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Microsoft Excel	NA	Microsoft Excel, Power Query	45 Hours	Associate	5	Microsoft Office Specialist	Microsoft Excel
			2	Excel Expert	Excel	Microsoft Excel, Power Query	45 Hours	Foundation	4	Microsoft Office Specialist	Microsoft Excel Expert
			3	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			4	Power Platform	Excel	Power BI, Power Automate	45 Hours	Associate	5	Microsoft Certified Fundamentals	Microsoft Power Platform (PL-900)
22	MERN Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Java Script	OOPS Concepts	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	Java Script
			2	MongoDB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Foundation	4	IBM	IBM Mongo DB
			3	Express JS	Java Script	Express.js, Postman	45 Hours	Foundation	4	Stem.org	Express JS
			4	React JS	Java Script	React Dev Tools, Vite	45 Hours	Associate	5	Stem.org	React JS
			5	Node JS	Java Script	Node.js CLI, npm	45 Hours	Associate	5	IBM	IBM - Node JS
23	CCNA (Routing and Switching	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	NETWORKING	NA	CISCO PACKET TRACER GNS3	45 Hours	Foundation	4	CISCO	CCST - Networking
			2	CCNA R&S MODULE 1	NETWORKING	CISCO PACKET TRACER GNS3	45 Hours	Associate	5	CISCO Network Academy	CCNA R&S MODULE 1
			3	CCNA R&S MODULE 2	CCNA R&S MODULE 1	CISCO PACKET TRACER GNS3	45 Hours	Associate	5	CISCO Network Academy	CCNA R&S MODULE 2
			4	CCNA R&S MODULE 3	CCNA R&S MODULE 3	CISCO PACKET TRACER GNS3	45 Hours	Associate	5	CISCO Network Academy	CCNA R&S MODULE 3
24	NETWORK SECURITY	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Networking	NA	PING TRACERT	45 Hours	Foundation	4	Pearson VUE -ITS	Networking
			2	Network Security	Networking	NETSTAT SNMP	45 Hours	Foundation	4	Pearson VUE -ITS	Network Security
			3	Redhat Linux	NA	SETFACL GETFACL	45 Hours	Associate	5	Stem.org	Redhat Linux
			4	KALI Linux Essential	Redhat Linux	NMAP META SPLOIT	45 Hours	Associate	5	Stem.org	KALI Linux Essential
			5	Cyber Security	Network Security	BURF SUIR AIR CRANG	45 Hours	Associate	5	CISCO -CCST	Cybersecurity

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25	Cyber Security	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Networking	NA	PING TRACERT	45 Hours	Foundation	4	CISCO-CCST	Networking
			2	Network Security	Networking	Netstat Snmp	45 Hours	Foundation	4	Pearson Vue - Its	Network Security
			3	CEH V 13	Network Security	Email Track Pro Meta Spliot	45 Hours	Associate	5	EC Council	CEH – Certified Ethical Hacking V13
			4	Certified Cyber Technician	Network Security	Air Crack Ng	45 Hours	Expert	6	Stem.Org	Cyber Security Analyst
26	Cloud Security	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Network Security	Na	Nmap Metasploit	45 Hours	Associate	5	Pearson Vue - ITS	Network Security
			2	Redhat Linux Admin	Linux	SE LINUX APACHE SERVER YUM	45 Hours	Associate	5	Stem.Org	Stem Org RHCSA Redhat Certified System Administrator
			3	Redhat Linux Scripting	Redhat Linux Admin	SETFACL GET FACL	45 Hours	Associate	5	Stem.Org	RHCSA
			4	Aws Sys Administration	CCNA R&S Module 2+Network Security	Ec2 Iam Cloud Front Aws Directry Service	45 Hours	Associate	5	Stem Org	Aws Certified Sysops Administrator Associate Certification
			5	Aws Security Associate	Aws Fundamental	Aws Ec2 S3 Vpc Iam	45 Hours	Associate	5	Stem Org	Aws Certified Security Speciality Scs-Co2
			6	Kali Inux Inside Aws	Kali	Kali Console	45 Hours	Expert	6	Stem.Org	Kali Inux Inside Aws
27	Ethical Hacking	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS)	1	Networking	Na	Tracert Ping Netstat	45 Hours	Foundation	4	CISCO-CCST	Networking
			2	Network Security	Networking	Metasploit Adv Emal Traack Pro	45 Hours	Associate	5	Pearson VUE-ITS	Network Security Admin
			3	Kali Linux Administration	Nmap Metasploit	Nmap Metasploit Adv	45 Hours	Associate	5	Stem.Org	Kali Admin
			4	Kali Linux Penetration Test	Burf Suite 2nd Level	Burff Suite Adv Para Meter	45 Hours	Expert	6	Stem.Org	Kali Linux
			5	Ethical Hacking	EH TOOLS	NMAP BURFF SUITE AIRCRACK NG 2ND LEVEL	45 Hours	Expert	6	EC Council	ETHICAL HACKER
28	Unity Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	C Sharp	Oops Concepts	Visual Studio, .Net Sdk	45 Hours	Foundation	4	Microsoft	Foundational C #
			2	Autodesk Maya	Autodesk AutoCAD	Maya, Arnold Renderer	45 Hours	Associate	5	Autodesk	Autodesk Certified User
			3	Unity Programming	C Sharp	Unity Hub, C#	45 Hours	Expert	6	Unity	Unity Programmer

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29	VR Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	C Sharp	Oops	Visual Studio, .Net Sdk	45 Hours	Foundation	4	Microsoft	Foundational C #
			2	Autodesk Maya	Autodesk AutoCAD	Maya, Arnold Renderer	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			3	Unity Programming	C Sharp	Unity Hub, C#	45 Hours	Associate	5	Unity	Unity Certified User
			4	VR Development	Programming Skills	Unity, Oculus Sdk	45 Hours	Expert	6	Unity	VR Developer
30	UI /UX Designer For Games	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	C Sharp	Oops	Visual Studio, .Net Sdk	45 Hours	Foundation	4	Microsoft	Foundational C #
			2	Autodesk Maya	Autodesk AutoCAD	Maya, Arnold Renderer	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			3	Unity Programming	C Sharp	Unity Hub, C#	45 Hours	Associate	5	Unity	Unity Certified User
			4	VR Development	Programming Skills	Unity, Oculus Sdk	45 Hours	Expert	6	Unity	Vr Developer
			5	Unity Artist	Programming Skills	Unity Editor, Probuilder	45 Hours	Associate	5	Unity	Associate Artist
31	Artificial Intelligence Engineering	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	Html 5 Application Development (HTML,CSS,JS)	Na	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue - ITS	Html 5 Application Development
			2	Java /Python	Oops	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue - ITS	It Specialist
			3	IBM SQL And Relational Database 101	Dbms	Ibm Sql	45 Hours	Foundation	4	IBM	IBM - Sql
			4	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Ibm Statistics 101
			5	Artificial Intelligence	Statistics 101	Jupyter Notebook, Pycharm	45 Hours	Expert	6	Pearson Vue - ITS	Artificial Intelligence
			6	Deep Learning With TensorFlow	Python	Jupyter Notebook, Pycharm	45 Hours	Expert	6	IBM	Deep Learning With Tensorflow
32	Machine Learning Engineering	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	Html 5 Application Development (HTML,CSS,JS)	Na	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue - ITS	Html 5 Application Development
			2	Java /Python	Oops	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue - ITS	It Specialist
			3	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Statistics 101
			4	Artificial Intelligence	Statistics 101	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Pearson Vue - ITS	Artificial Intelligence
			5	Deep Learning With TensorFlow	Python	Jupyter Notebook, Pycharm	45 Hours	Expert	6	IBM	Deep Learning With Tensorflow
			6	Machine Learning With Python	Python	Jupyter Notebook, Pycharm	45 Hours	Expert	6	INTEL	Machine Learning With Python

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
33	Artificial Intelligence Machine Learning Using R	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	Html 5 Application Development (HTML,CSS,JS)	NA	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue -ITS	Html 5 Application Development
			2	R Programming	NA	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	R 101
			3	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Statistics 101
			4	Artificial Intelligence	Statistics 101	Jupyter Notebook, Pycharm	45 Hours	Associate	5	INTEL	Ai
			5	Data Visualization With R	R	Jupyter Notebook, Pycharm	45 Hours	Associate	5	IBM	Data Visualization With R
			6	Machine Learning With R	R	Jupyter Notebook, Pycharm	45 Hours	Expert	6	IBM	ML Using R
34	Artificial Intelligence Machine Learning Cloud Solution Development Using R	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	Html 5 Application Development (HTML,CSS,JS)	NA	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue -ITS	Html 5 Application Development
			2	R Programming	NA	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	R 101
			3	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Statistics 101
			4	Machine Learning With R	R	Jupyter Notebook, Pycharm	45 Hours	Associate	5	IBM	ML Using R
			5	Artificial Intelligence	Statistics 101	Jupyter Notebook, Pycharm	45 Hours	Associate	5	INTEL	Ai
			6	Azure Ai	Artificial Intelligence	Jupyter Notebook, Pycharm	45 Hours	Expert	6	Microsoft	Azure Ai (Ai -900)
35	Deep Learning	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	Html 5 Application Development (HTML,CSS,JS)	NA	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue - Its	Html 5 Application Development
			2	R Programming	NA	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	R 101
			3	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Statistics 101
			4	Machine Learning With R	R	Jupyter Notebook, Pycharm	45 Hours	Associate	5	IBM	ML Using R
			5	Artificial Intelligence	Statistics 101	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Pearson Vue - ITS	Ai
			6	Deep Learning (Nn, Mlp,Cnn,RI And Gans)	Ai Fundamentals	Jupyter Notebook, Pycharm	45 Hours	Expert	6	Intel	Deep Learning
36	Artificial Intelligence Machine Learning Using Python	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTECH (CSE, ISE, EEE, ECE, AIML, DS) BSC(CS)	1	Html 5 Application Development (HTML,CSS,JS)	Na	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue - ITS	Html 5 Application Development
			2	Python	Na	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue - ITS	It Specialist
			3	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Statistics 101
			4	Artificial Intelligence (Ai Models & Algorithms)	Foundation Theories (Ai/MI)	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Intel	Ai (Ai Models & Algorithms)
			5	MI-L1 (MI Models, Python Libs,Svm)	Ai (Ai Models & Algorithms)	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Intel	MI-L1 (MI Models, Python Libs,Svm)
			6	MI-L2 (Nlp,DI,Nn,Gans, And RI)	MI-L1 (MI Models, Python Libs,Svm)	Jupyter Notebook, Pycharm	45 Hours	Expert	6	Intel	MI-L2 (Nlp,DI,Nn,Gans, And RI)

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
37	Artificial Intelligence Machine Learning Cloud Solution Development using Python	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Html 5 Application Development (HTML,CSS,JS)	Na	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue - ITS	Html 5 Application Development
			2	Python	Na	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue - ITS	It Specialist
			3	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Associate	5	IBM	Statistics 101
			4	Artificial Intelligence (Ai Models & Algorithms)	Ai Models & Algorithms	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Intel	Ai (Ai Models & Algorithms)
			5	ML-L1 (ML Models, Python Libs,Svm)	Ai-ML	Jupyter Notebook, Pycharm	45 Hours	Expert	6	Intel	ML-L1 (ML Models, Python Libs,Svm)
			6	Azure Artificial Intelligence	Cloud Computing	Azure Console	45 Hours	Expert	6	Microsoft	Azure Artificial Intelligence - Ai 900
38	Generative AI development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Html 5 Application Development (HTML,CSS,JS)	Na	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue - ITS	Html 5 Application Development (Html,Css,Js)
			2	Python	Na	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue - ITS	It Specialist
			3	SQL	Rdbms	Mysql Workbench, Dbeaver	45 Hours	Associate	5	IBM	Ibm - Sql
			4	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Statistics 101
			5	Artificial Intelligence (Ai Models & Algorithms)	Foundation Theories (Ai/ML)	Jupyter Notebook, Pycharm	45 Hours	Associate	5	INTEL	Ai
			6	Generative Artificial Intelligence	Ai-L1	Jupyter Notebook, Pycharm	45 Hours	Expert	6	Pearson Vue -CCS	Generative Ai
39	Generative AI Cloud Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Html 5 Application Development (HTML,CSS,JS)	Na	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue -ITS	Html 5 Application Development
			2	Python	Na	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue -ITS	It Specialist
			3	Statistics 101	Basics Maths	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	IBM	Statistics 101
			4	Artificial Intelligence (Ai Models & Algorithms)	Foundation Theories (Ai/ML)	Jupyter Notebook, Pycharm	45 Hours	Associate	5	INTEL	Ai
			5	Generative Artificial Intelligence	Google Docs	Jupyter Notebook, Pycharm	45 Hours	Expert	6	Pearson Vue -CCS	Generative Ai
			6	Azure Artificial Intelligence	Na	Azure Machine Learning Studio, Azure Cognitive Services	45 Hours	Associate	5	Microsoft	Ai -900
40	IoT development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Software foundation Course - C	Na	Eclipse	45 Hours	Foundation	4	IBM	Software foundation Course -C
			2	Python Programming	Na	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue -ITS	It Specialist
			3	Fundamentals of IoT	C Programming	Eclipse	45 Hours	Associate	5	IBM	Fundamentals Of IoT

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
41	IoT Engineering	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Software Foundation Course -C	Na	Eclipse	45 Hours	Foundation	4	IBM	Software foundation Course -C
			2	Python Programming	Na	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue -ITS	It Specialist
			3	Fundamentals of IoT	C Programming	Eclipse	45 Hours	Associate	5	IBM	Fundamentals of IoT
			4	IOT Using Python	Python	Python	45 Hours	Associate	5	Stem.org	IoT using Python
42	IoT Automation	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Software Foundation Course -C	NA	Eclipse	45 Hours	Foundation	4	IBM	Software Foundation Course -C
			2	Python Programming	Python	Jupyter Notebook, Pycharm	45 Hours	Foundation	4	Pearson Vue -ITS	It Specialist
			3	Fundamentals of IoT	C Programming	Eclipse	45 Hours	Associate	5	IBM	Fundamentals Of IoT
			4	IOT Using Python	Python	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Stem.org	IoT using Python
			5	TI Automation -L1	IoT	Thingsboard,Blynk	45 Hours	Expert	6	Texas Instruments	TI Automation -L1
			6	TI Automation-L2	IoT	Thingsboard,Blynk	45 Hours	Expert	6	Texas Instruments	TI Automation-L2
43	Home Automation	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Home And Building Installation Automation	NA	Home Assistant,Domoticz,Node-Red,Mqtt	45 Hours	Foundation	4	Schneider Electric	Home And Building Installation Automation
			2	Safe And Secure Home	IoT	Home Assistant,Domoticz,Node-Red,Mqtt	45 Hours	Foundation	4	Schneider Electric	Safe And Secure Home
			3	Smart Home And Building Automation	IoT	Home Assistant,Domoticz,Node-Red,Mqtt	45 Hours	Associate	5	Schneider Electric	Smart Home And Building Automation
			4	BMS Automation	IoT	Home Assistant,Domoticz,Node-Red,Mqtt	45 Hours	Associate	5	Schneider Electric	Bms Automation
44	Industrial Automation	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	AutoCAD Electrical	NA	Rslogix 5000, Tia Portal, Cx-Programmer	45 Hours	Foundation	4	Autodesk	AutoCAD Electrical
			2	Fundamentals of IoT	C Programming	Eclipse	45 Hours	Foundation	4	IBM	Fundamentals Of IoT
			3	Industrial Controls And Drivers	IoT Interface	Thingsboard,Blynk	45 Hours	Associate	5	Schneider Electric	Industrial Controls And Drivers
			4	PLC HMI And Sensors	Plc	Robotstudio ,Automation Builder	45 Hours	Associate	5	Schneider Electric	PLC HMI And Sensors
			5	Scada	Plc	Wonderware	45 Hours	Expert	6	Schneider Electric	Scada
			6	IIOT	IoT	Siemens Simatic Iot2040 / Iot2050,Mqtt,Node-Red	45 Hours	Expert	6	Schneider Electric	IIOT

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
45	SoC Design	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	AutoCAD Electrical	Na	Rslogix 5000, Tia Portal, Cx-Programmer	45 Hours	Foundation	4	Autodesk	AutoCAD Electrical
			2	Digital Design	AutoCAD Electrical	Modelsim,Xilinx Vivado Simulator	45 Hours	Foundation	4	VLSI AMD Xilinx	Digital Design
			3	HDI And Verilog HDI Programming	Digital Design	Modelsim,Xilinx Vivado Simulator	45 Hours	Associate	5	VLSI AMD Xilinx	HDI And Verilog HDI Programming
			4	CMOS VLSI Design	Hdl And Verilog Hdl Programming	Cadence Genus,Hspice (Synopsys),Electronic Design Automation	45 Hours	Associate	5	VLSI AMD Xilinx	CMOS VLSI Design
46	Low Power VLSI Design	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	AutoCAD Electrical	Na	Rslogix 5000, Tia Portal, Cx-Programmer	45 Hours	Foundation	4	Autodesk	AutoCAD Electrical
			2	Digital Design	AutoCAD Electrical	Modelsim,Xilinx Vivado Simulator	45 Hours	Foundation	4	VLSI AMD Xilinx	Digital Design
			3	HDI And Verilog HDI Programming	Digital Design	Modelsim,Xilinx Vivado Simulator	45 Hours	Associate	5	VLSI AMD Xilinx	HDI And Verilog HDI Programming
			4	CMOS VLSI Design	HDI And Verilog HDI Programming	Cadence Genus,Hspice (Synopsys),Electronic Design Automation	45 Hours	Associate	5	VLSI AMD Xilinx	CMOS VLSI Design
			5	Low Power VLSI Design	CMOS VLSI Design	Cadence Genus,Hspice (Synopsys),Electronic Design Automation	45 Hours	Associate	5	VLSI AMD Xilinx	Low Power VLSI Design
47	FPGA Design	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	AutoCAD Electrical	Na	Rslogix 5000, Tia Portal, Cx-Programmer	45 Hours	Foundation	4	Autodesk	AutoCAD Electrical
			2	Digital Design	Digital Electronics	Modelsim,Xilinx Vivado Simulator	45 Hours	Foundation	4	VLSI AMD Xilinx	Digital Design
			3	HDI And Verilog HDI Programming	Basic Electronics & Basic Programming	Modelsim,Xilinx Vivado Simulator	45 Hours	Associate	5	VLSI AMD Xilinx	HDI And Verilog HDI Programming
			4	CMOS VLSI Design	Fundamentals Of Analog And Digital Electronic Circuits	Cadence Genus,Hspice (Synopsys),Electronic Design Automation	45 Hours	Associate	5	VLSI AMD Xilinx	CMOS VLSI Design
			5	Low Power VLSI Design And FPGA Design	CMOS VLSI Design	Cadence Genus,Hspice (Synopsys),Electronic Design Automation	45 Hours	Expert	6	VLSI AMD Xilinx	Low Power VLSI Design And FPGA Design
			6	FPGA Design	FPGA	Vivado (Xilinx),Modelsim	45 Hours	Expert	6	VLSI AMD Xilinx	FPGA Design
48	Robotic Process Automation	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Html 5 Application Development (HTML,CSS,JS)	NA	Vs Code, Chrome Devtools	45 Hours	Foundation	4	Pearson Vue	Html 5 Application Development (Html,Css,Js)
			2	SQL	RDBMS	Sql Work Bench	45 Hours	Foundation	4	IBM	IBM SQL
			3	Artificial Intelligence	Ai Models & Algorithms	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Intel	Artificial Intelligence
			4	Machine Learning	Python Programming	Jupyter Notebook, Pycharm	45 Hours	Associate	5	Intel	Machine Learning
			5	Robotic Process Automation	NA	Blue Prism Console	45 Hours	Expert	6	Blueprism	Robotic Process Automation

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49	Video Editing	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Adobe Photoshop	NA	Adobe Photoshop, Adobe Bridge	45 Hours	Foundation	4	Adobe	Adobe Certified Professional
			2	Adobe Premier Pro	Adobe Photoshop	Adobe Premier Pro	45 Hours	Expert	6	Adobe	Adobe Certified Professional
			3	Adobe After Effects	Illustrator	After Effects, Adobe Media Encoder	45 Hours	Expert	6	Adobe	Adobe Certified Professional
50	Graphics Design	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Adobe Photoshop	NA	Adobe Photoshop, Adobe Bridge	45 Hours	Foundation	4	Adobe	Adobe Certified Professional
			2	Adobe Illustrator	Photoshop	Adobe Illustrator, Adobe Color	45 Hours	Associate	5	Adobe	Adobe Certified Professional
			3	Adobe InDesign	Illustrator	After Effects, Adobe Media Encoder	45 Hours	Expert	6	Adobe	Adobe Certified Professional
51	UI and UX Design	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Adobe Photoshop	NA	Adobe Photoshop, Adobe Bridge	45 Hours	Foundation	4	Adobe	Adobe Certified Professional
			2	Adobe Illustrator	Photoshop	Adobe Illustrator, Adobe Color	45 Hours	Foundation	4	Adobe	Adobe Certified Professional
			3	Adobe InDesign	Illustrator	Adobe Illustrator, Adobe Color	45 Hours	Associate	5	Adobe	Adobe Certified Professional
52	Animation	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Adobe Photoshop	NA	Adobe Photoshop, Adobe Bridge	45 Hours	Foundation	4	Adobe	Adobe Certified Professional
			2	Adobe Illustrator	Photoshop	Adobe Illustrator, Adobe Color	45 Hours	Foundation	4	Adobe	Adobe Certified Professional
			3	Adobe Animate	Photoshop	Adobe Illustrator, Adobe Color	45 Hours	Associate	5	Adobe	Adobe Certified Professional
			4	Adobe After Effects	Illustrator	After Effects, Adobe Media Encoder	45 Hours	Associate	5	Adobe	Adobe Certified Professional

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53	Civil CAD Design	BE (CV,ARCH MTech (CV,ARCH)	1	AutoCAD Civil	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			2	Civil 3D	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			3	InfraWorks	AutoCAD	Autodesk Infra	45 Hours	Associate	5	Stem.org	InfraWorks
54	interior Design	BE (CV,ARCH MTech (CV,ARCH)	1	AutoCAD Civil	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			2	Civil 3D	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			3	InfraWorks	AutoCAD	Autodesk Infra	45 Hours	Associate	5	Stem.org	InfraWorks
			4	Autodesk 3DS Max	Autodesk AutoCAD	3ds Max, Arnold Renderer	45 Hours	Associate	5	Autodesk	Autodesk Certified User
55	3D Design	BE (CV,ARCH MTech (CV,ARCH)	1	AutoCAD Civil	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			2	Civil 3D	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			3	InfraWorks	AutoCAD	Autodesk Infra	45 Hours	Associate	5	Stem.org	InfraWorks
			4	Autodesk 3DS Max	Autodesk AutoCAD	3ds Max, Arnold Renderer	45 Hours	Associate	5	Autodesk	Autodesk Certified User
			5	Autodesk Maya	Autodesk AutoCAD	Maya, Arnold Renderer	45 Hours	Associate	5	Autodesk	Autodesk Certified User
56	Architectural Design	BE (CV,ARCH MTech (CV,ARCH)	1	AutoCAD Civil	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			2	Civil 3D	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			3	InfraWorks	AutoCAD	Autodesk Infra	45 Hours	Associate	5	Stem.org	InfraWorks
			4	Autodesk 3DS Max	Autodesk AutoCAD	3ds Max, Arnold Renderer	45 Hours	Associate	5	Autodesk	Autodesk Certified User
			5	Autodesk Maya	Autodesk AutoCAD	Maya, Arnold Renderer	45 Hours	Expert	6	Autodesk	Autodesk Certified User
			6	Autodesk Revit	Autodesk AutoCAD	Revit, BIM 360	45 Hours	Expert	6	Autodesk	Autodesk Certified User

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57	Project Management	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	AutoCAD Civil	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			2	Autodesk 3DS Max	Autodesk AutoCAD	3ds Max, Arnold Renderer	45 Hours	Foundation	4	Autodesk	Autodesk Certified User
			3	Autodesk Maya	Autodesk AutoCAD	Maya, Arnold Renderer	45 Hours	Associate	5	Autodesk	Autodesk Certified User
			4	Autodesk Revit	Autodesk AutoCAD	Revit, BIM 360	45 Hours	Expert	6	Autodesk	Autodesk Certified User
			5	PMI - Ready	NA	MS Project, Wrike	45 Hours	Associate	5	PMI	PMI - Ready
58	Structural Design	BE (CV,ARCH MTech (CV,ARCH)	1	AutoCAD Civil	Basic Civil Concepts	AutoCAD Civil 3D, Revit	45 Hours	Foundation	4	Autodesk	AutoCAD Civil
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	Python
			3	STAAD PRO	AutoCAD Civil	STAAD.Pro, AutoCAD	45 Hours	Associate	5	Stem.org	STAAD PRO
59	Mechanical CAD Design	BE (ME,CV,ARCH MTech (ME,CV,ARCH)	1	AutoCAD Mechanical	NA	AutoCAD Mechanical, Inventor	45 Hours	Foundation	4	Autodesk	AutoCAD Mechanical
			2	Ansys Foundation	AutoCAD Mech	ANSYS Workbench, ANSYS Mechanical	45 Hours	Foundation	4	Ansys and Ethnotech	Ansys Foundation
			3	Autodesk Inventor	Autodesk AutoCAD	Inventor, Fusion 360	45 Hours	Associate	5	Autodesk	Autodesk Inventor
60	Mechanical Simulation	BE (ME,CV,ARCH MTech (ME,CV,ARCH)	1	AutoCAD Mechanical	NA	AutoCAD Mechanical, Inventor	45 Hours	Foundation	4	Autodesk	AutoCAD Mechanical
			2	Ansys Foundation	AutoCAD Mech	ANSYS Workbench, ANSYS Mechanical	45 Hours	Foundation	4	Ansys and Ethnotech	Ansys Foundation
			3	Ansys FEA	Ansys-Foundation	ANSYS Mechanical, ANSYS Structural	45 Hours	Associate	5	Ansys and Ethnotech	Ansys FEA

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61	Mechanical - CFD	BE (ME)) MTech (ME)	1	AutoCAD Mechanical	NA	AutoCAD Mechanical, Inventor	45 Hours	Foundation	4	Autodesk	AutoCAD Mechanical
			2	Ansys Foundation	AutoCAD Mech	ANSYS Workbench, ANSYS Mechanical	45 Hours	Foundation	4	Ansys and Ethnotech	Ansys Foundation
			3	Ansys FEA	Ansys-Foundation	ANSYS Mechanical, ANSYS Structural	45 Hours	Associate	5	Ansys and Ethnotech	Ansys FEA
			4	Fundamentals of Fluid mechanics	Ansys	ANSYS Fluent, OpenFOAM	45 Hours	Foundation	4	Ansys and Ethnotech	Fundamentals of Fluid mechanics
			5	Ansys CFD	Ansys-Foundation	ANSYS Fluent, CFX	45 Hours	Associate	5	Ansys and Ethnotech	Ansys CFD
62	Mechanical Architecture	BE (ME)) MTech (ME)	1	AutoCAD Mechanical	NA	AutoCAD Mechanical, Inventor	45 Hours	Foundation	4	Autodesk	AutoCAD Mechanical
			2	Ansys foundation	AutoCAD Mech	ANSYS Workbench, ANSYS Mechanical	45 Hours	Foundation	4	Ansys and Ethnotech	Ansys foundation
			3	MATLAB	Ansys	MATLAB, Simulink	45 Hours	Associate	5	MathWorks	MATLAB
			4	Autodesk Revit	Autodesk AutoCAD	Revit, BIM 360	45 Hours	Expert	6	Autodesk	Autodesk Revit
63	Mechanical Project Management	BE (ME)) MTech (ME)	1	AutoCAD Mechanical	NA	AutoCAD	45 Hours	Foundation	4	Autodesk	AutoCAD Mechanical
			2	Ansys foundation	AutoCAD Mech	ANSYS Workbench, ANSYS Mechanical	45 Hours	Foundation	4	Ansys and Ethnotech	Ansys foundation
			3	MATLAB	Ansys	MATLAB, Simulink	45 Hours	Associate	5	MathWorks	MATLAB
			4	Autodesk Revit	Autodesk AutoCAD	Revit, BIM 360	45 Hours	Expert	6	Autodesk	Autodesk Revit
			5	PMI Ready	NA	MS Project, Wrike	45 Hours	Expert	6	PMI-Ready	PMI Ready
64	Image Processing	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	MATLAB	NA	MATLAB	45 Hours	Foundation	4	MathWorks	MATLAB
			2	Building Interactive application using MATLAB	MATLAB	MATLAB	45 Hours	Foundation	4	MathWorks	Building Interactive application using MATLAB
			3	Processing data using MATLAB	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Processing data using MATLAB
			4	Signal Processing	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Signal Processing
			5	Image Processing	MATLAB	MATLAB	45 Hours	Expert	6	MathWorks	Image Processing

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
65	Signal Processing	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	MATLAB	NA	MATLAB	45 Hours	Foundation	4	MathWorks	MATLAB
			2	Building Interactive application using MATLAB	MATLAB	MATLAB	45 Hours	Foundation	4	MathWorks	Building Interactive application using MATLAB
			3	Processing data using MATLAB	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Processing data using MATLAB
			4	Signal Processing	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Signal Processing
66	Test Engineering	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	MATLAB fundamentals	NA	MATLAB	45 Hours	Foundation	4	MathWorks	MATLAB fundamentals
			2	Simulation Fundamentals	MATLAB	MATLAB	45 Hours	Foundation	4	MathWorks	Simulation Fundamentals
			3	Control system Design with Simulink	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Control system Design with Simulink
			4	Power Electronics	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Power Electronics
67	Simulation Engineering	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	MATLAB fundamentals	NA	MATLAB	45 Hours	Foundation	4	MathWorks	MATLAB fundamentals
			2	Simulation Fundamentals	MATLAB	MATLAB	45 Hours	Foundation	4	MathWorks	Simulation Fundamentals
			3	Control system Design with Simulink	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Control system Design with Simulink
			4	Power Electronics	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Power Electronics
			5	Simulation of Communication system in MATLAB	MATLAB	MATLAB	45 Hours	Expert	6	MathWorks	Simulation of Communication system in MATLAB
68	Data Visualization	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	MATLAB	NA	MATLAB	45 Hours	Foundation	4	MathWorks	MATLAB
			2	Building Interactive application using MATLAB	MATLAB	MATLAB	45 Hours	Foundation	4	MathWorks	Building Interactive application using MATLAB
			3	Processing data using MATLAB	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Processing data using MATLAB
			4	Signal Processing	MATLAB	MATLAB	45 Hours	Associate	5	MathWorks	Signal Processing
			5	Image Processing	MATLAB	MATLAB	45 Hours	Expert	6	MathWorks	Image Processing
			6	Data Visualization	MATLAB	MATLAB	45 Hours	Expert	6	MathWorks	Data Visualization

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
69	Tally Consultant	BCom, BBA ,MBA	1	Excel Expert	Excel	Microsoft Excel, Power Query	45 Hours	Expert	6	Microsoft	Excel Expert
			2	Tally for inventory	NA	TallyPrime, Barcode Integration	45 Hours	Associate	5	Tally Academy	Tally for inventory
			3	Tally Payroll	Tally for Inventory management'	TallyPrime, Payroll Vouchers	45 Hours	Associate	5	Tally Academy	Tally Payroll
			4	Tally Prime	Tally for Payroll- Level 3	TallyPrime, ERP 9	45 Hours	Associate	5	Tally Academy	Tally Prime
70	Tally Accounting	BCom, BBA ,MBA	1	Excel Expert	Excel	Microsoft Excel, Power Query	45 Hours	Expert	6	Microsoft	Excel Expert
			2	Tally with GST	NA	TallyPrime, GST Reports	45 Hours	Associate	5	Tally Academy	Tally with GST
			3	Tally for Advance Accounting	Tally with GST (Goods and Service Tax)	TallyPrime, Audit & Compliance	45 Hours	Expert	6	Tally Academy	Tally for Advance Accounting
71	Tally Professional	BCom , BBA ,MBA	1	Tally Essential Level 1	NA	Tally Prime	45 Hours	Foundation	4	Tally Solutions	Tally Essential Level 1
			2	Tally Essential Level 2	Tally Essential Level 1	Tally Prime	45 Hours	Foundation	4	Tally Solutions	Tally Essential Level 2
			3	Tally Essential Level 3	Tally Essential Level 2	Tally Prime	45 Hours	Associate	5	Tally Solutions	Tally Essential Level 3
			4	Tally Professional	Tally Essential Level 3	Tally Prime	45 Hours	Expert	6	Tally Solutions	Tally Professional
72	Block Chain	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Networking	NA	CISCO Packet Tracer, Wireshark	45 Hours	Foundation	4	Pearson VUE - ITS	Networking
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	Python
			3	Block Chain Essentials V2	Python	Geth,Solc	45 Hours	Associate	5	<u>IBM</u>	Block Chain Essentials V2
			4	IBM Blockchain Foundation Developer	Python	Jupyter Notebook, PyCharm	45 Hours	Associate	5	IBM	IBM Blockchain Foundation Developer
			5	Smart Contract and Ethereum 2.0	Block Chain Development	Ethereum Remix IDE.	45 Hours	Expert	6	<u>Stem.org</u>	Block Chain Development
			6	Block Chain ecosystem and Real world application	Smart Contract and Ethereum 2.0	Ethereum Remix IDE.	45 Hours	Expert	6	<u>Stem.org</u>	Smart Contract and Ethereum 2.0

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
73	Robotics Engineer	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	IT Specialist
			2	ABB basic robotic programming	Python	RobotStudio ,Automation Builder	45 Hours	Foundation	4	ABB	ABB basic robotic programming
			3	ABB advanced Robotic Programming	Python	RobotStudio ,Automation Builder	45 Hours	Expert	6	ABB	ABB advanced Robotic Programming
			4	IRC5 Programming Operation course	Python	IRC5 Robot Controller,RAPID	45 Hours	Associate	5	ABB	IRC5 Programming Operation course
			5	ABB Robotic Electrical/maintenance	Python	IRC5 Robot Controller,RAPID	45 Hours	Associate	5	ABB	ABB Robotic Electrical/maintenance
			6	ABB Cell Operation Class I	Python	IRC5 Robot Controller,RAPID	45 Hours	Expert	6	ABB	ABB Cell Operation Class I
74	EV Engineer	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	INTRODUCTION TO EVS	NA	MATLAB/Simulink, Ansys ConceptEV, Dorleco SimEV, and Dymola	45 Hours	Foundation	5	Mahindra & Mahindra	INTRODUCTION TO EVS
			2	EV POWERTRAIN AND COMPONENTS	EV concepts	MATLAB/Simulink, Ansys ConceptEV, Dorleco SimEV, and Dymola	45 Hours	Associate	5	Mahindra & Mahindra	EV POWERTRAIN AND COMPONENTS
			3	BMS (BATTERY MANAGEMENT SYSTEM	NA	MATLAB/Simulink, Ansys ConceptEV, Dorleco SimEV, and Dymola	45 Hours	Associate	4	Mahindra & Mahindra	BMS (BATTERY MANAGEMENT SYSTEM
			4	EV DESIGN AND SIMULATION	EV concepts	MATLAB/Simulink, Ansys ConceptEV	45 Hours	Expert	4	Mahindra & Mahindra	EV DESIGN AND SIMULATION
			5	EV MAINTENANCE & TROBLESHOOTING	EV concepts	MATLAB/Simulink, Ansys ConceptEV, Dorleco SimEV, and Dymola	45 Hours	Expert	5	Mahindra & Mahindra	EV MAINTENANCE & TROBLESHOOTING
75	IoT and Automation 1	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Associate	5	Pearson VUE - ITS	IT Specialist
			2	IoT using Python	NA	Micropython,Circuit Python,TinkerCAD	45 Hours	Foundation	4	Tem.org	IoT using Python
			3	IoT using Firebase	IoT	Firebase Analytics,FCM,FCI	45 Hours	Foundation	4	Stem.org	IoT using Firebase
			4	IoT and Cloud	IoT	Paho -MQTT,BOTO3	45 Hours	Associate	5	Stem.org	IoT and Cloud
			5	IoT and security essentials	IoT & Cloud	Pycryptodome	45 Hours	Associate	5	Stem.org	IoT security essentials
			6	IoT and Networking	IoT and Interfacing Protocols	SSL/TLS	45 Hours	Associate	5	Stem.org	IoT and Networking
76	IoT and Automation 2	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Software Foundation Course -C	NA	Dev C++ , Vs Code	45 Hours	Associate	5	IBM	Software Foundation Course -C
			2	Fundamentals of IoT	C Programming	Arduino IDE,TinkerCAD,PlatformIO,Proteus	45 Hours	Foundation	4	IBM	Fundamentals of IoT
			3	IoT using Node MCU	IoT	Arduino IDE	45 Hours	Foundation	4	Stem.org	IoT using Node MCU
			4	IoT using Firebase	IoT	Firebase Analytics,FCM,FCI	45 Hours	Associate	5	Stem.org	IoT using Firebase
			5	IoT and Cloud	IoT	Paho -MQTT,BOTO3	45 Hours	Associate	5	Stem.org	IoT and Cloud
			6	IoT and security essentials	IoT and Cloud	Pycryptodome	45 Hours	Associate	5	Stem.org	IoT security essentials

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
77	IOS Application Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML5 Application Development (HTML,CSS,JS)	NA	VS Code, Chrome DevTools & Notepad	45 Hours	Foundation	4	Pearson VUE - ITS	HTML 5 Application Development
			2	Software Foundation Course - C++	OOPS Concepts	Swift Playground , X-Code	45 Hours	Foundation	4	IBM	Software Foundation Course - C++
			3	App Development using Swift -User	Swift Programming	XCode	45 Hours	Foundation	4	Pearson VUE	App Development using Swift - User
			4	App Development using Swift - Associate	App Development using Swift -User	X-Code	45 Hours	Associate	5	Pearson VUE	App Development using Swift - Associate
			5	Firebase	MobileApp Development using Flutter	Firebase Analytics,FCM,FCI	45 Hours	Associate	5	Sem Org	Firebase
			6	DevOps	Cloud computing	Linux, Scripting language	45 Hours	Expert	6	IBM	IBM- DevOps
78	Full Stack PHP Development	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML & CSS	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE - ITS	IT Specialist
			2	Java Script	OOPs Concepts	Eclipse, IntelliJ IDEA	45 Hours	Foundation	4	Pearson VUE - ITS	IT Specialist
			3	PHP	OOPs Concepts	VS Code, Chrome DevTools	45 Hours	Foundation	4	IC3	IC PHP Developer Fundamentals
			4	Angular JS	Java Script	VS Code, Chrome DevTools	45 Hours	Associate	5	IBM	IBM - Anjular JS
			5	SQL 101	RDBMS	MySQL Workbench, DBeaver	45 Hours	Expert	6	IBM	IBM - SQL 101
			6	Microsoft Azure (Az-900)	NA	Azure Portal, Azure CLI	45 Hours	Expert	6	Microsoft	Microsoft Azure fundamentals (AZ-900)
79	Mean Stack	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML5 Application Development (HTML,CSS,JS)	NA	VS Code, Chrome DevTools & Notepad	45 Hours	Foundation	4	Pearson VUE - ITS	HTML 5 Application Development
			2	Node JS	Java Script	Node.js CLI, npm	45 Hours	Foundation	4	IBM	IBM - Node JS
			3	Angular JS	Java Script	React Dev Tools, Vite	45 Hours	Associate	5	IBM	IBM - Angular JS
			4	Mongo DB	RDBMS	MongoDB Compass, Robo 3T	45 Hours	Associate	5	IBM	IBM Mongo DB
			5	Express JS	Java Script	Express.js, Postman	45 Hours	Expert	6	Stem.org	Express JS
			6	DevOPS	MERN	GitHub Actions, Docker	45 Hours	Expert	6	IBM	IBM - Devops
80	.Net Full stack	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	HTML5 Application Development (HTML,CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE - ITS	HTML 5 Application Development
			2	C# Programming	OOPS	Visual Studio	45 Hours	Foundation	4	Microsoft	Foundational c#
			3	SQL	RDBMS	SQL Workbench	45 Hours	Associate	5	IBM	IBM - SQL
			4	ASP .NET	C#	Visual Studio	45 Hours	Associate	5	Stem.org	ASP .NET
			5	DevOps	C#	Visual Studio	45 Hours	Expert	6	IBM	Devops
			6	Azure	Cloud	Azure Portal, Azure CLI	45 Hours	Expert	6	Microsoft	Microsoft Azure fundamentals (AZ-900)

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81	Language Track	BE (CSE, ISE, EEE, ECE, AIML, Civil , Mech ,DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS) , BA , BCom .	1	Professional English	NA	Versant Tool	45 Hours	Foundation	4	Versant (Pearson)	Professional English
			2	Entrepreneurship and Small Business	Professional English	ESB Tool	45 Hours	Associate	5	ESB (INTUIT)	Entrepreneurship and Small Business
			3	linguaskill	Professional English	Cambridge Tool	45 Hours	Expert	6	Cambridge University Press	linguaskill
82	AI-ML with Mathematic and Logics Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	HTML5 Application Development (HTML,CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	HTML5 Application Development (HTML,CSS,JS)
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	Python
			3	Data Analytics using Python	Python	Jupyter Notebook, PyCharm	45 Hours	Associate	5	IBM	Data Analytics using Python
			4	Mathematics for Machine Learning	DS + Python	Jupyter Notebook, PyCharm	45 Hours	Expert	6	Stem.org	Mathematics for Machine Learning
			5	Machine Learning Using Python	DS + Python	TensorFlow, NumPy	45 Hours	Expert	6	IBM	Machine Learning Using Python
			6	Artificial Intelligence	ML	OpenCV, Keras	45 Hours	Expert	6	INTEL	Artificial Intelligence
83	AI NLP Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	Python	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	Python
			2	Data Analytics using Python	Python	Jupyter Notebook, PyCharm	45 Hours	Associate	5	IBM	Data Analytics using Python
			3	Artificial Intelligence	Python	ChatGPT, DALL·E	45 Hours	Associate	5	Pearson-VUE-ITS	Artificial Intelligence
			4	TensorFlow for Deep Learning	Python + AI	TensorFlow, OpenCV	45 Hours	Expert	6	IBM	Deep Learning with TensorFlow
			5	Transfer Learning Program	Python + AI	PyTorch, ONNX	45 Hours	Expert	6	Stem.org	Transfer Learning Program
			6	Natural Language Processing Specialization	Python + AI	TensorFlow, OpenCV	45 Hours	Expert	6	Stem.org	NLP
84	AI Computer Vision Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	Python	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	Python
			2	Artificial Intelligence	Python	TensorFlow, OpenCV	45 Hours	Foundation	4	Pearson VUE -ITS	Artificial Intelligence
			3	Generative AI	Python	ChatGPT, DALL-E	45 Hours	Associate	5	Pearson Vue-CCS	Generative AI
			4	PyTorch for Deep Learning	Python + AI	PyTorch, Torchvision	45 Hours	Expert	6	Stem.org	PyTorch for Deep Learning
			5	Transfer Learning Program	Python + AI	PyTorch, ONNX	45 Hours	Expert	6	Stem.org	Transfer Learning Program
			6	Computer Vision Program	Python + AI	OpenCV, OpenVINO™ Toolkit	45 Hours	Expert	6	Stem.org	Computer Vision

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
85	Agentic AI Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	Python	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE -ITS	Python
			2	Data Analytics Using Python	Python	TensorFlow, OpenCV	45 Hours	Foundation	4	IBM	Data Analytics Using Python
			3	Machine Learning and AI Algorithms	Python	TensorFlow, NumPy	45 Hours	Associate	5	Stem.org	Mathematics for Machine Learning
			4	Artificial Intelligence	Python & ML	TensorFlow, OpenCV	45 Hours	Associate	5	Pearson VUE -ITS	IT Specialist
			5	Agentic AI	AI Fundamentals	TensorFlow, OpenCV	45 Hours	Expert	6	Stem.org	Agentic AI
			6	Capstone + Ethics + Deployment	Any AI specific model	PyTorch, ONNX	45 Hours	Expert	6	Stem.org	AI Developer
86	Digital Marketing Track	MBA , BBA	1	Content creation and Social media marketing	NA	Canva, Hootsuite, Meta Blueprint	45 Hours	Foundation	4	Stem.org	Content creation and Social media Marketing
			2	Influencer Marketing	NA	Mailchimp, ConvertKit, Impact	45 Hours	Associate	5	Stem.org	Influencer Marketing
			3	Digital Marketing	NA	Google , Hub Spot , Google ad Center	45 Hours	Expert	6	META	Meta Certified Digital Marketing
87	Gemini Google Cloud Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE	Python
			2	Cloud Computing	NA	Cloud	45 Hours	Foundation	4	Pearson VUE	Cloud Computing
			3	Artificial Intelligence	Cloud Computing	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE	Artificial Intelligence
			4	Generative AI	Artificial Intelligence	Jupyter Notebook, PyCharm	45 Hours	Associate	5	Pearson CCS	Generative AI
			5	Gemini Google Cloud (Basic + Intermediate)	Generative AI	Google Cloud	45 Hours	Associate	5	Google	Gemini Google Cloud (Basic + Intermediate)
			6	Gemini Google Cloud (Advanced)	Gemini Google Cloud (Basic + Intermediate)	Google Cloud	45 Hours	Expert	6	Google	Gemini Google Cloud (Advanced)
88	Google Data Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	IT Specialist
			2	Cloud Computing	Jupyter Notebook, PyCharm	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE -ITS	Cloud Computing
			3	Statistics 101	Basics Maths	Jupyter Notebook, PyCharm	45 Hours	Associate	5	IBM	Statistics 101
			4	Data Analytics	Statistics 101	Python (pandas), Tableau	45 Hours	Associate	5	Pearson VUE -ITS	Data Analytics
			5	Google Data Analyst	Data Analytics	Google Console	45 Hours	Expert	6	Google	Google Data Analyst
			6	Artificial Intelligence	Statistics 101	Jupyter Notebook, PyCharm	45 Hours	Expert	6	Pearson VUE -ITS	Artificial Intelligence

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Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
89	Gemini Generative AI Leader Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	Python
			2	Cloud Computing	NA	Cloud	45 Hours	Foundation	4	Pearson VUE - ITS	Cloud Computing
			3	Data Analytics using Python	Python	Jupyter Notebook, PyCharm	45 Hours	Associate	5	IBM	Data Analytics using Python
			4	Python or Java	Excel	Microsoft Excel, Power Query	45 Hours	Associate	5	Microsoft	PL-900
			5	Artificial Intelligence	Statistics 101	Jupyter Notebook, PyCharm	45 Hours	Expert	6	Pearson VUE - ITS	Artificial Intelligence
			6	Generative AI Leader & Gemini in BigQuery	Artificial Intelligence	Jupyter Notebook, PyCharm	45 Hours	Expert	6	Google	Generative AI Leader & Gemini in BigQuery
90	Google Data Engineer Track	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	Python
			2	Cloud Computing	NA	Cloud	45 Hours	Foundation	4	Pearson VUE - ITS	Cloud Computing
			3	Statistics 101	Basics Maths	Jupyter Notebook, PyCharm	45 Hours	Associate	5	IBM	Statistics 101
			4	Big Data Architecture	DBMS	MySQL Workbench, DBeaver	45 Hours	Associate	5	IBM	Big Data Architecture
			5	Google Data Engineer	Big Data	Pandas	45 Hours	Expert	6	Google	Google Data Engineer
			6	Artificial Intelligence	Statistics 101	Jupyter Notebook, PyCharm	45 Hours	Expert	6	Pearson VUE - ITS	Artificial Intelligence
91	Cloud Integration with Google-AWS-Azure	BE (CSE, ISE, AIML, DS) BCA MCA MTech (CSE, ISE, AIML, DS) BSc(CS , DS)	1	HTML5 Application Development (HTML,CSS,JS)	NA	VS Code, Chrome DevTools	45 Hours	Foundation	4	Pearson VUE - ITS	HTML5 Application Development (HTML,CSS,JS)
			2	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	Python
			3	AWS Cloud Foundation	Programming Skill	AWS Console, AWS CLI	45 Hours	Foundation	4	AWS Academy	AWS Cloud Foundation
			4	Google Cloud Infrastructure for AWS professionals	AWS Cloud Foundation	Google Console	45 Hours	Associate	5	Google	Google Cloud Infrastructure for AWS professionals
			5	Azure (Az 900)	Cloud Computing	Azure Console	45 Hours	Foundation	4	Microsoft	Azure (Az 900)
			6	Cloud Architect Accelerated Learning Path for Azure professionals	Azure	Google Console	45 Hours	Associate	5	Google	Cloud Architect Accelerated Learning Path for Azure professionals
92	Big Data Analytics in IoT	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	Python
			2	IoT using Python	Python	Micropython,Circuit Python,TinkerCAD	45 Hours	Foundation	4	Stem.org	IoT using Python
			3	IoT using Firebase , ThingSpeak	IoT	Firebase Analytics,FCM,FCI	45 Hours	Associate	5	Stem.org	IoT using Firebase
			4	IoT data generation and Cloud connectivity.	IoT	Paho -MQTT,BOTO3	45 Hours	Expert	6	Stem.org	IoT data generation and Cloud connectivity.
			5	IoT , Sensors and Networking	IoT and Interfacing Protocols	SSL/TLS	45 Hours	Associate	5	Stem.org	IoT , Sensors and Networking

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93	Google Cloud Cyber Security Track	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Networking	NA	PING TRACERT	45 Hours	Foundation	4	Pearson VUE - ITS	Networking
			2	Network Security	Networking	NETSTAT SNMP	45 Hours	Foundation	4	CISCO-CCST	Network Security
			3	Cyber Security	Network Security	CISCO Console	45 Hours	Associate	5	CCST -CCST	Cyber Security
			4	Google Cloud Cybersecurity	Cyber Security	Google Console	45 Hours	Expert	6	Google	Google Cloud Cybersecurity
94	Drone Programming with AI	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Python	NA	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	Python
			2	Artificial Intelligence	Python	Jupyter Notebook, PyCharm	45 Hours	Foundation	4	Pearson VUE - ITS	Artificial Intelligence
			3	Advanced Drone Operations	NA	Drone Simulation	45 Hours	Associate	5	Stem.org	Advanced Drone Operations
			4	Machine Learning for Drones	Python	Jupyter Notebook, PyCharm	45 Hours	Associate	5	Stem org	Machine Learning for Drones
			5	Computer Vision for Drone	Python	Open CV, PyCharm	45 Hours	Expert	6	Stem org	Computer Vision for Drone
			6	Drone Communication	Networking	PING TRACERT	45 Hours	Expert	6	Stem org	Drone Communication
95	Comptia Cyber Track	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Networking	NA	PING TRACERT	45 Hours	Foundation	4	CISCO-CCST	Networking
			2	NETWORK SECURITY	Networking	NETSTAT SNMP	45 Hours	Associate	5	Pearson VUE- ITS	Networak administration
			3	REDHAT SECURITY	NA	SE LINUX SETFACL	45 Hours	Associate	5	Stem.org	Redhat security administrator
			4	KALI LINUX	REDHAT SECURITY	BURFSUITE NMAP	45 Hours	Expert	6	Stem.org	KALI LINUX Security Engineer
			5	COMPTIA CYBER SECURITY	KALI	METASPLIOT	45 Hours	Expert	6	Stem.org	Cyber security admnistrator
96	VR Game Developer Track	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Python	NA	PyCham	45 Hours	Foundation	4	Pearson VUE - ITS	IT Specialist
			2	Maya	AutoCAD	Autodesk maya	45 Hours	Associate	5	Autodesk	Maya
			3	3DS Max	AutoCAD	Autodesk 3DS Max	45 Hours	Associate	5	Autodesk	3DS MAX
			4	AR/VR	C# / Python	Unity	45 Hours	Expert	6	Unity	AR/VR
			5	AR/VR Game Development	C# / Python	Unity	45 Hours	Expert	6	Stem org	AR/VR Game Development

Globally recognized Industry certified Micro-credentials

Sl. No.	Technology Track	Mapped Degree Program	Course	Program Name	Pre-Requisite	Tools Covered	Duration	Program Level	NSQF Level	OEMs	Global Certification Name
97	large Scale Industrial Automation	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Basic Electrical	NA	AutoCAD,Proteus	45 Hours	Foundation	4	Stem.org	Digital design
			2	Fundamentals of IoT	Basic Electrical	Eclipse	45 Hours	Foundation	4	IBM	Fundamentals of IoT
			3	Industrial Sensors and Interfaces	IoT	Simulink	45 Hours	Associate	5	Schneider Electric	Safe and Secure Home
			4	PLC programming	Programming concepts	Robostudio,Eclipse	45 Hours	Associate	5	Schneider Electric	Safe and Secure Home
			5	SCADA Design	CAD design	Wonderware ,Intouch	45 Hours	Expert	6	Schneider Electric	SCADA Design
			6	PLC -SCADA Interfacing ,DCS Fundamentals	Interfacing ,PLC	Aveva	45 Hours	Expert	6	Schneider Electric	PLC -SCADA Interfacing ,DCS Fundamentals
98	Energy Optimization Using MATLAB	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	MATLAB fundamentals	NA	MATLAB	45 Hours	Foundation	4	MATHWORKS	MATLAB fundamentals
			2	Simulink Fundamentals	MATLAB	MATLAB SIMULINK	45 Hours	Foundation	4	MATHWORKS	Simulation Fundamentals
			3	Introduction to Energy Optimization	MATLAB,SIMULINK	MATLAB SIMULINK ,linprog, intlinprog, fmincon, quadprog	45 Hours	Associate	5	MATHWORKS	Introduction to Energy Optimization
			4	Energy Modelling and optimization	Optimization	MATLAB SIMULINK ,linprog, intlinprog, fmincon, quadprog	45 Hours	Expert	6	MATHWORKS	Energy Modelling and optimization
99	Microsoft 365 Track	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Microsoft 365 Fundamentals (MS-900)	knowledge of Cloud-based solutions.	Microsoft Console	45 Hours	Foundation	4	Microsoft Certified Fundamentals	Microsoft 365 Fundamentals (MS-900)
			2	Microsoft Dynamics 365 Fundamentals-CRM (MB-910)	Microsoft 365 Fundamentals (MS-900)	Microsoft Dynamics 365 Tools	45 Hours	Foundation	4	Microsoft Certified Fundamentals	Microsoft Dynamics 365 Fundamentals-CRM (MB-910)
			3	Microsoft Dynamics 365 Fundamentals-ERP (MB-920)	Microsoft Dynamics 365 Fundamentals-CRM (MB-910)	Microsoft Dynamics 365 Tools	45 Hours	Foundation	4	Microsoft Certified Fundamentals	Microsoft Dynamics 365 Fundamentals-ERP (MB-920)
100	Maang Engineer	BE (CSE, ISE, EEE, ECE, AIML, DS) BCA MCA MTech (CSE, ISE, EEE, ECE, AIML, DS) BSc(CS)	1	Data Structure and Algorithms	NA	Netbeans , IDE	45 Hours	Foundation	4	Stem org	Data Structure and Algorithms
			2	Java or Python Programming	OOPS	JDK or Pycham	45 Hours	Foundation	4	Pearson VUE	ITS
			3	System Design and Object Oriented Design	Programming Skills	JDK or Pycham	45 Hours	Foundation	4	Stem org	System Design and Object Oriented Design
			4	SQL or MongoDB	RDBMS	SQL Console or MongoDB	45 Hours	Associate	5	IBM	IBM SQL or IBM No SQL MongoDB
			5	Cloud Computing	NA	NA	45 Hours	Associate	5	Pearson VUE-ITS	Cloud Computing
			6	Azure Fundamentals (AZ-900)	Cloud Computing	Azure Console	45 Hours	Associate	5	Microsoft	Azure Fundamentals (AZ-900)