



# DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)

(6 Branches CSE, ISE, ECE, EEE, ME& CE Accredited 3 years by NBA, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082



## Department of Master of Computer Applications

Event Name	ADD ON COURSE ON GITHUB & ITS IMPLEMENTATION
Theme	Understanding The Structure And Usage Of GITHUB For Effective Code Development.
Date	26-Feb-2022
Venue	4 th Floor , M Block , DSATM

### Objectives of the Program/ Event

- To provide students an opportunity to apply the knowledge they have learnt, their intellectual abilities and practical skills to solve real time issues, challenges in the area of coding.
- This course gives understanding of how to use GITHUB platform for broadcasting once work to various clients in the network and work in a de-centralized framework.
- Collect, analyse and present data into meaningful way using GITHUB Platform.
- Create project, Ad files to project, Commit projects and implementing other GIT commands.



**Purpose:** This course allows the students to enhance their broad understanding of how to create repositories in GITHUB and broadcast their work to huge clients in de-centralized approach.

**About the Topic:** This course helps students to manage their projects on GITHUB platform and implement GIT Command such as push, pull, fork etc. on LINUX platform during manual set up.

**Resource person:** Ms. Kimmi Kumari, Assistant Professor, MCA dept., DSATM.

**Participants:** 1<sup>st</sup> Sem MCA Students, 60 students attended.



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## Department of Master of Computer Applications

**Vision:** The vision of the program was to enable the students to pursue their chosen career path so that they can fulfil their life goals and dreams.

**Identification and addressing the GAP:** To enable the student to identify the use of GITHUB platform on LINUX platform

### Measurable outcomes:

- The students build their technical skills and deepen their learning of GIT and GITHUB beyond facts and memorization.
- Hands on session has helped the students to gain clarity with respect to manual set up and cloning the projects.

HOD's Signature

Principal's Signature



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## Department of Master of Computer Applications

<b>Event Name</b>	<b>POSTER MAKING, PLAGARISM CHECKING &amp; REPORT WRITING</b>
<b>Theme</b>	<b>Understanding problem statement and suggest suitable solution for the given problem and present in the format of the research paper</b>
<b>Date</b>	<b>09-April-2022</b>
<b>Venue</b>	<b>4 th Floor , M Block , DSATM</b>

### Objectives of the Program/ Event

This guide presents a strategy for producing poster presentations that encourages clarity as well as creativity, helping to make poster design.



**Purpose:** This course allows the students to analyse the problem and conduct experimental design with the samplings. Apply concepts section of Copy Right Act Patent Act to the given case.

**About the Topic:** A poster presentation is a formal, studies-primarily based totally presentation work. A poster presentation presents a visible illustration studies thru text, charts, graphs, and different visible aids. A poster presentation permits to examine studies fabric at personal entertainment and to engage.



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## Department of Master of Computer Applications

**Resource person:** Dr Manjula Sanjay, Prof & Head Dept Of MCA, Ushasree R, Assistant professor, Dept of MCA.

**Participants:** 1<sup>st</sup> Sem MCA Students, 60 students attended.

**Vision:** The vision of the program was to enable the students to learn and build a poster and different formats like IEEE so on.

**Identification and addressing the GAP:** To enable the student to create a poster and design with the samplings

### Measurable outcomes:

- Students are able to design the posters
- Students writes the thesis in the IEEE format

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## Department of Master of Computer Applications

### 5 Days Training program on Aptitude & Soft skills

<b>Date: 4th to 8th July 2022</b>
<b>Batch: MCA 2nd semester students</b>
<b>Strength: 56</b>
<b>Timings: 09:30 to 4:00</b>
<b>Trainer: Mr Manish</b>
<b>Campus : DSATM campus</b>
<b>Venue : M Block , MCA Dept</b>

#### Objectives of the Program/ Event

Number system, Percentage, Average, Ratio & proportion, ages, partnership, Profit & Loss, Simple & Compound interest, Time & Work, Pipes & Cistern, Time & distance, Boats & Streams, Blood relation, Coding & Decoding, Ranking & ordering.



**Purpose:** The purpose of the event is to educate students to know about Clocks, calendars, Direction Sense, Data interpretation and Data sufficiency Coding & decoding, Number Series, Analogy, Odd man out

**About the Topic:** The brief knowledge to Learn Aptitude and reasoning and facing interviews

**Resource person/ participants:** “Mr Manish

2<sup>nd</sup> Sem MCA Students, 60 students attended.



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## Department of Master of Computer Applications

**Vision:** The vision of the program was to enable the students to face the interview and clear all the rounds related to logical and technical.

**Identification and addressing the GAP:** To enable the student to identify the solving ability and facing the interviews

**Measurable outcomes:** Students were able to measure numerical ability and problem-solving skills of candidates as it plays a crucial role in any recruitment process because of its following importance: Mental Alertness, the business world is a ruthless one, complex challenges being part of the routine.

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## Department of Master of Computer Applications

Event Name	Workshop On IOS APP DEVELOPMENT
Theme	IOS APP DEVELOPMENT
Date	09th-July- 2022
Venue	Seminar Hall , M Block , DSATM

### Objectives of the Program/ Event

iOS application development is the process of making mobile applications for Apple hardware, including iPhone, iPad and iPod Touch. The software is written in the Swift programming language or Objective-C and then deployed to the Store for users to use.



**Purpose:** The purpose of the event is to educate students about the IOS development. It is based on Applications and demonstration of software or programming languages.

**About the Topic:** The brief knowledge to Learn about how to build iOS apps for iPhone and iPad. The Swift programming language, explore Apple's Code IDE.



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## Department of Master of Computer Applications

**Resource person/ participants:** “Mr. Noor Mohammed Jeelani”, Apple certified trainer & Apple solutions Consultant. 1<sup>st</sup> Sem MCA Students, 60 students attended.

**Vision:** The vision of the program was to enable the students to pursue their career in Development of IOS application and Developer.

**Identification and addressing the GAP:** To enable the student to identify the use of IOS App and development, deployment of new featured Applications

**Measurable outcomes:** The students were able to understand, Analyse and Apply concepts related to IOS Applications based on XCode and usage of IDE.

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## Department of Master of Computer Applications

<b>Event Name</b>	<b>Workshop On Artificial Intelligence, Machine Learning &amp; Data science</b>
<b>Theme</b>	<b>Artificial Intelligence, Machine Learning &amp; Data science.</b>
<b>Date</b>	<b>23-July-2022</b>
<b>Venue</b>	<b>Seminar Hall , M Block , DSATM</b>

### Objectives of the Program/ Event

The objectives of the program were to guide the students on the domain of Artificial intelligence, Machine Learning and data science. The Students acquire an idea and knowledge about ML Applications and to demonstrate Real Time Applications of Neural Networks.



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## Department of Master of Computer Applications



**Purpose:** The purpose of the event is to educate students about the ML concepts, AI based Applications and demonstration of Neural Networks using Activation Functions. Workshop covered the topics like Supervised Learning, Unsupervised Learning & Reinforcement Learning and building a Neural Network using Activation function.

**About the Topic:** The Workshop on AIML provides an excellent opportunity to the students to showcase their research orientation towards their desired domain.

**Resource person/ participants:** The resource person was “Dr Ashok Rao”, Director, NIE Mysore. 2<sup>nd</sup> Semester Students dept. of Master of Computer Applications.

**Vision:** The vision of the program was to enable the students to pursue their career in AI, ML and Data science field.



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## Department of Master of Computer Applications

**Identification and addressing the GAP:** To enable the student to identify the use of ML Applications and Neural Networks.

**Measurable outcomes:** The students were able to understand, Analyse and Apply concepts related to Robotics and Gaming Applications based on Artificial Intelligence, Machine Learning algorithms and building of real time applications using ML algorithms.

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## Department of Master of Computer Applications

<b>Event Name</b>	<b>Challenges and Innovation in Cyber Security Domain</b>
<b>Theme</b>	<b>Cyber Security</b>
<b>Date</b>	<b>10th-Sept 2022 , 10:00 am – 5:00 pm</b>
<b>Venue</b>	<b>MCA Dept , M Block , 4<sup>th</sup> Floor , DSATM</b>

### Objectives of the Program/ Event:

The objectives of the program was to guide the students in the area of Cybersecurity as it is to protect information from being stolen, compromised or attacked. These goals form the confidentiality, integrity, availability (CIA) triad, the basis of all security programs. The CIA triad is a security model that is designed to guide policies for information security within the premises of an organization or company. This model is also referred to as the **AIC (Availability, Integrity, and Confidentiality)** triad to avoid the confusion with the Central Intelligence Agency. The elements of the triad are considered the three most crucial components of security.

### Purpose:

The purpose of the event is to educate students regarding cybersecurity as it is used to stop or overcome harm. For machine systems, apps, devices, and data. Cybersecurity is the security of internet-connected ways such as tools.

**About the Event :** Department of Master of Computer Applications Organized workshop on “**Challenges and Innovation in Cyber Security Domain**” presented by the speaker “ Dr. Manish Kumar”, Assistant Professor, M S Ramaiah Institute of Technology, Bangalore on 10<sup>th</sup> Sept, 2022 from 10.00 am to 5.00 pm. Dr. Manjula Sanjay, Prof. & HOD of MCA Dept addressed the gathering. Warm welcome to the Event and Vote of Thanks delivered by Ushasree R, Asst. Professor, MCA, DSATM. The workshop was attended and well received by the II semester MCA students.

**Resource person:** “Dr. Manish Kumar”, Assistant Professor, M S Ramaiah Institute of Technology, Bangalore

**Participants:** 2<sup>nd</sup> Sem MCA Students.

**Vision:** The vision of the program was to enable the students to understand cybersecurity as it refers to the safeguarding of internet-connected devices, including hardware, software, and data from cyber-attacks. Individuals and businesses use cybersecurity to prevent unauthorized access to data centres and other networks.

### Identification and addressing the GAP:

The focus was on the hands-on session and demonstration of how Cybersecurity can be measured by at least one of three goals-



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## Department of Master of Computer Applications

1. Protect the confidentiality of data.
2. Preserve the integrity of data.
3. Promote the availability of data for authorized users.

### Course Outcomes:

1. **CO1:** Learning the foundation of the Cyber Crime and Cyber Security.
2. **CO2:** Demonstration of Cyber Security using the role of WINDOW OS as the target and LINUX OS as the attacker .

SL No.	CO'S	RBT Levels
1	CO1	Remembering (R) , Understand (U)
2	CO2	Applying (A) , Analyse (AN)

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*Department of Master of Computer Applications*

**Organizing**  
**Workshop**  
**On**  
**Hands- On Session On Cyber Security**  
 10<sup>th</sup> September, 2022  
 10:00AM to 5:00PM

**\* Venue: 'M' Block Seminar Hall**

**RESOURCE PERSON**



**Dr. Manish Kumar**  
 MCA, M.CE, (CS), PGDCL, PhD  
 Assistant Professor Dept. of  
 Computer Application M S Ramaiah  
 Institute of Technology, Bangalore

**Kimmi Kumari**  
 Faculty Coordinator

**Dr. Manjula Sanjay**  
 Prof. & HOD MCA, DSATM

**Dr. Ravishankar M**  
 Principal, DSATM





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## Department of Master of Computer Applications



### CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	3	3	3	-	-	-	-	-
CO2	-	-	-	-	3	-	-	-	3	-	3	3

### CO-PO Justifications

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO6	3	Strongly mapped as the students will be able to apply and commit professional ethics and cyber regulations in a global economic environment.
	PO7	3	Strongly mapped as the students will be able to recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
CO2	PO5	3	Strongly mapped as few students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO9	3	Strongly mapped as the few students will be able to communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
	PO11	3	Strongly mapped as the students will be able to work as a member or leader in diverse teams in multidisciplinary environment
	PO12	3	Strongly mapped as the students will be able to identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.



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## Department of Master of Computer Applications

**Closing the loop :** Students understood the usage and various functionality of Cyber Security along with successful completion of assessment and with this we are closing the loop.



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## Department of Master of Computer Applications

<b>Event Name</b>	<b>WORKSHOP ON UX DESIGN</b>
<b>Theme</b>	<b>Adobe, XD, Illustrator</b>
<b>Date</b>	<b>16th-September 2022</b>
<b>Venue</b>	<b>4<sup>th</sup> Floor, MCA Dept , M Block , DSATM</b>

### Objectives of the Program/ Event:

The objectives of the program were to guide the students in the area of their objective for the entire Interaction but are too broad for a specific project. Multiple initiatives at the company need to come together to make Clients happier any one site or application may help with this but will be very unlikely to be able to handle the entire company is about this one site or application and it ends up being wildly successful.

### Purpose:

The purpose of the event is to educate students regarding user experience is important because it tries to fulfill the user's needs. It aims to provide positive experiences that keep a user loyal to the product or brand. Additionally, a meaningful user experience allows you to define customer journeys on your product that are most conducive to business success.

**About the Event:** Department of Master of Computer Applications Organized a workshop on "UX DESIGN" When a client comes to the designer with a problem, most of the designers jump straight to solutions. Smart user experience design starts by identifying the problem and guiding all ideas to solve that problem.

**Resource person:** Mr. Pruthvi Raj, Graphical designer, Indengene, Bangalore.

**Participants:** 2<sup>nd</sup> Sem MCA Students.

**Vision:** The vision of the program was to enable the students to understand the A UX vision should be part of the overall roadmap your company follows. the type of user experience wants customers or users to have, and support in achieving the goals. The company achieves its goals and builds its brand. clear answers to all of these questions that are well known to your entire team. Instead of a product team just making UX design decisions on the fly, first, deliberately lay the groundwork for all design decisions by defining your UX vision. Be proactive, not reactive.

### Identification and addressing the GAP:

- The development time is significantly shorter compared to the interactions and development practices.



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## Department of Master of Computer Applications

### Course Outcomes:

1. CO1: Select the best output and what works for a particular given project.
2. CO2: Develop Ideas and various app designs and web designs.

SL No.	CO'S	RBT Levels
1	CO1	Remembering (R) , Understand (U)
2	CO2	Applying (A) , Analyse (AN)

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#### DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

DATE

16-9-2022

TIME

3:00 PM

**WORKSHOP ON UX DESIGN**

SPEAKER

Healthcare App Design: How to Improve Patient Medical Experience

**MR. PRUTHVI RAJ K**  
JUNIOR GRAPHIC DESIGNER, INDENGENE, BANGALORE.

VENUE

MCA SEMINAR HALL

USHASREE R  
FACULTY COORDINATOR

DR. MANJULA SANJAY  
PROF & HEAD-MCA

DR. M RAVISHANKAR  
PRINCIPAL, DSA/TM





**Department of Master of Computer Applications**

**CO-PO Mapping**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	3	3	-	-	-	-	-	-
CO2	-	-	-	-	2	-	-	-	2	-	-	3

**CO-PO Justifications**

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills, and techniques necessary for innovative software solutions
	PO6	3	Strongly mapped as the students will be able to apply and commit to professional ethics and cyber regulations in a global economic environment.
CO2	PO5	2	Moderately mapped as few students will be able to select modern computing tools, skills, and techniques necessary for innovative software solutions
	PO9	2	Moderately mapped as the few students will be able to communicate effectively with the computing community as well as society by being able to comprehend effective documentation and presentations.
	PO12	3	Strongly mapped as the students will be able to identify opportunities, entrepreneurship vision, and use of innovative ideas to create value and wealth for the betterment of the individual and society.

**Closing the loop:** Students understood the various software which is used to design the interfaces. The software is Adobe, XD, and Illustrator.

As per the Academic syllabus prescribed by the University.2<sup>nd</sup> semester MCA, there is an elective subject User interface design. Students did not opt for the elective. Now the major companies are working on UX design. The corporate trainer trained the students on UX design. So, the students will be able to learn and can apply for Jobs.

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## Department of Master of Computer Applications

<b>Event Name</b>	<b>WORKSHOP ON AUGMENTED AND VIRTUAL REALITY</b>
<b>Theme</b>	<b>AR/VR</b>
<b>Date</b>	<b>7<sup>th</sup> Sept, 2022 , 9:30 am – 12:00 am</b>
<b>Venue</b>	<b>MCA Dept, M Block, 4<sup>th</sup> Floor, DSATM</b>

### Objectives of the Program/ Event:

The objectives of the program was to guide the students in the area of augmented reality as the user's physical surroundings are enhanced in real-time with contextually appropriate digital content. With a smartphone or special hardware, you can experience (AR) augmented reality.

### Purpose:

The purpose of the event is to educate students regarding Virtual reality (VR) and augmented reality (AR) as it hold great promise for the future of gaming, marketing, e-commerce, education, and a variety of other industries. Both technologies are known for providing an upgraded experience that combines a virtual and real world with enhanced 3-D images.

**About the Event :** Department of Master of Computer Applications Organized workshop on “Augmented and Virtual Reality” presented by the speaker “ Mr. Ashray Pai”, XR Research and Developer, AR/VR App Developer, Bangalore on 07<sup>th</sup> Sept, 2022 from 9.30 am to 12.00 am. Dr. Manjula Sanjay, Prof. & HOD of MCA Dept addressed the gathering. Warm welcome to the Event and Vote of Thanks delivered by Kimmi Kumari, Asst. Professor, MCA, DSATM. The workshop was attended and well received by the II semester MCA students.

**Resource person:** “Mr. Ashray Pai”, XR Research and Developer, AR/VR App Developer, Bangalore.

**Participants:** 2<sup>nd</sup> Sem MCA Students.

**Vision:** The vision of the program was to enable the students to understand augmented Reality (AR) and Virtual Reality (VR) as AR/VR is a technology that combines the digital and physical worlds to create a virtual experience. Apps for mobile or desktop that use augmented reality technology to combine digital elements into the real environment. Augment Reality is the full name of the technology.

### Identification and addressing the GAP:

- The visual senses are controlled by the system in virtual reality. In augmented reality, the user is always aware of their presence in the real environment. Virtual reality is



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75% virtual and 25% real. AR is made up of 25% virtual content and 75% real content.

### Course Outcomes:

1. CO1: Learning the foundation of the Augmented Reality (AR)/Virtual Reality (VR).

2. CO2: Demonstration of AR/VR using real time projects.

SL No.	CO'S	RBT Levels
1	CO1	Remembering (R) , Understand (U)
2	CO2	Applying (A) , Analyse (AN)

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**Organizing**  
**Workshop**  
**On**  
**Augmented and Virtual Reality**

7<sup>th</sup> September, 2022  
 9:30AM to 12:00PM

**\* Venue: 'M' Block Seminar Hall**

**RESOURCE PERSON**

**Ashray Pai**  
 XR Research & Developer,  
 AR/VR App Developer,  
 Bangalore

**Kimmi Kumari**  
 Faculty Coordinator

**Dr. Manjula Sanjay**  
 Prof. & HOD MCA, DSATM

**Dr. Ravishankar M**  
 Principal, DSATM





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### CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	3	3	3	-	-	-	-	-
CO2	-	-	-	-	3	-	-	-	3	-	3	3

### CO-PO Justifications

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO6	3	Strongly mapped as the students will be able to apply and commit professional ethics and cyber regulations in a global economic environment.
	PO7	3	Strongly mapped as the students will be able to recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
CO2	PO5	3	Strongly mapped as few students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO9	3	Strongly mapped as the few students will be able to communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
	PO11	3	Strongly mapped as the students will be able to work as a member or leader in diverse teams in multidisciplinary environment
	PO12	3	Strongly mapped as the students will be able to identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.



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## Department of Master of Computer Applications

**Closing the loop** : Students understood the usage and various functionality of AR/VR platform along with successful completion of assessment and with this we are closing the loop.

HOD's Signature



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## Department of Master of Computer Applications

<b>Event Name</b>	<b>Hands-On Session On Cyber Security</b>
<b>Theme</b>	<b>Cyber Security</b>
<b>Date</b>	<b>10th-Sept 2022 , 10:00 am – 5:00 pm</b>
<b>Venue</b>	<b>MCA Dept , M Block , 4<sup>th</sup> Floor , DSATM</b>

### Objectives of the Program/ Event:

The objectives of the program was to guide the students in the area of Cybersecurity as it is to protect information from being stolen, compromised or attacked. These goals form the confidentiality, integrity, availability (CIA) triad, the basis of all security programs. The CIA triad is a security model that is designed to guide policies for information security within the premises of an organization or company. This model is also referred to as the **AIC (Availability, Integrity, and Confidentiality)** triad to avoid the confusion with the Central Intelligence Agency. The elements of the triad are considered the three most crucial components of security.

### Purpose:

The purpose of the event is to educate students regarding cybersecurity as it is used to stop or overcome harm. For machine systems, apps, devices, and data. Cybersecurity is the security of internet-connected ways such as tools.

**About the Event :** Department of Master of Computer Applications Organized workshop on “**Hands-On Session On Cyber Security**” presented by the speaker “ Dr. Manish Kumar”, Assistant Professor, M S Ramaiah Institute of Technology, Bangalore on 10<sup>th</sup> Sept, 2022 from 10.00 am to 5.00 pm. Dr. Manjula Sanjay, Prof. & HOD of MCA Dept addressed the gathering. Warm welcome to the Event and Vote of Thanks delivered by Ushasree R, Asst. Professor, MCA, DSATM. The workshop was attended and well received by the II semester MCA students.

**Resource person:** “Dr. Manish Kumar”, Assistant Professor, M S Ramaiah Institute of Technology, Bangalore

**Participants:** 2<sup>nd</sup> Sem MCA Students.

**Vision:** The vision of the program was to enable the students to understand cybersecurity as it refers to the safeguarding of internet-connected devices, including hardware, software, and data from cyber-attacks. Individuals and businesses use cybersecurity to prevent unauthorized access to data centres and other networks.

**Identification and addressing the GAP:**



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## Department of Master of Computer Applications

The focus was on the hands-on session and demonstration of how Cybersecurity can be measured by at least one of three goals-

1. Protect the confidentiality of data.
2. Preserve the integrity of data.
3. Promote the availability of data for authorized users.

### Course Outcomes:

1. CO1: Learning the foundation of the Cyber Crime and Cyber Security.
2. CO2: Demonstration of Cyber Security using the role of WINDOW OS as the target and LINUX OS as the attacker .

SL No.	CO'S	RBT Levels
1	CO1	Remembering (R) , Understand (U)
2	CO2	Applying (A) , Analyse (AN)

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*Department of Master of Computer Applications*

**Organizing**  
**Workshop**  
**On**  
**Hands- On Session On Cyber Security**  
 10<sup>th</sup> September, 2022  
 10:00AM to 5:00PM

**\* Venue: 'M' Block Seminar Hall**

**RESOURCE PERSON**

**Dr. Manish Kumar**  
 MCA, M.Phil (CS), PGDCL, PhD  
 Assistant Professor Dept. of  
 Computer Application M S Ramaiah  
 Institute of Technology, Bangalore

**Kimmi Kumari**  
 Faculty Coordinator

**Dr. Manjula Sanjay**  
 Prof. & HOD MCA, DSATM

**Dr. Ravishankar M**  
 Principal, DSATM





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## Department of Master of Computer Applications



### CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	3	3	3	-	-	-	-	-
CO2	-	-	-	-	3	-	-	-	3	-	3	3

### CO-PO Justifications

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO6	3	Strongly mapped as the students will be able to apply and commit professional ethics and cyber regulations in a global economic environment.
	PO7	3	Strongly mapped as the students will be able to recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
CO2	PO5	3	Strongly mapped as few students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
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## Department of Master of Computer Applications

**Closing the loop :** Students understood the usage and various functionality of Cyber Security along with successful completion of assessment and with this we are closing the loop.

HOD's Signature



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## Department of Master of Computer Applications

<b>Event Name</b>	<b>WORKSHOP ON UI/UX and WEB TECHNOLOGY</b>
<b>Theme</b>	<b>Design App Development</b>
<b>Date</b>	<b>13th-August 2022 , 10:30 am – 12:00 pm</b>
<b>Venue</b>	<b>Google Meet, <a href="https://meet.google.com/cen-hrwe-xxz">https://meet.google.com/cen-hrwe-xxz</a></b>

### Objectives of the Program/ Event:

The objectives of the program was to guide the students in the area of UI/UX and Web application development as they serves two basic goals: Provide a functional and productive user experience complemented by an aesthetically pleasing user interface..

### Purpose:

The purpose of the event is to educate students regarding UI/UX and Web application development as UX/UI Design plays an essential role in achieving the goal of improving the user experience and customer satisfaction that ultimately helps increase the number of users of the specific application.

**About the Event :** Department of Master of Computer Applications Organized workshop on “**UI/UX and WEB APP DEVELOPMENT**” presented by the speaker “ Mr. Pramod Bhat”, Senior Software Developer, Crowdstaffing Pvt Ltd. on 13<sup>th</sup> August, 2022 from 10.30 pm to 12.00 pm. Dr. Manjula Sanjay, Prof. & HOD of MCA Dept addressed the gathering. Warm welcome to the Event and Vote of Thanks delivered by Kimmi Kumari, Asst. Professor, MCA, DSATM. The workshop was attended and well received by the II semester MCA students.

**Resource person:** Mr. Pramod Bhat, Senior Software Developer, Crowdstaffing Pvt Ltd.

**Participants:** 2<sup>nd</sup> Sem MCA Students.

**Vision:** The vision of the program was to enable the students to understand the UI/UX and WEB APP DEVELOPMENT and make students to comfortably design various real time applications. The overall vision is to make the students aware of the fact that how companies uses the above design app theme to reach their target.

### Identification and addressing the GAP:

- UX design is focused on everything that affects the user’s journey to solve a problem. On the other hand, UI design is a process that mainly focused on how the specific product’s surfaces look and function. UX design is a complete experience which may not be limited to the screen. So , its important to know the difference between the two



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## Department of Master of Computer Applications

and do a survey before designing the app in order to make it more attractive and useful as per market demands.

### Course Outcomes:

1. **CO1:** Learning the foundation of the UI/UX, WEB , Software development process and GIT.
2. **CO2:** Demonstration of UI/UX and WEB Technology using real time projects.

SL No.	CO'S	RBT Levels
1	CO1	Remembering (R) , Understand (U)
2	CO2	Applying (A) , Analyse (AN)

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**Department of Master of Computer Applications**

**Organizing**  
**Technical Talk**  
**On**  
**UI/UX and Web Technology**  
 13<sup>th</sup> August, 2022  
 10:30AM to 12:00PM

**\* Venue: 'M' Block Seminar Hall**

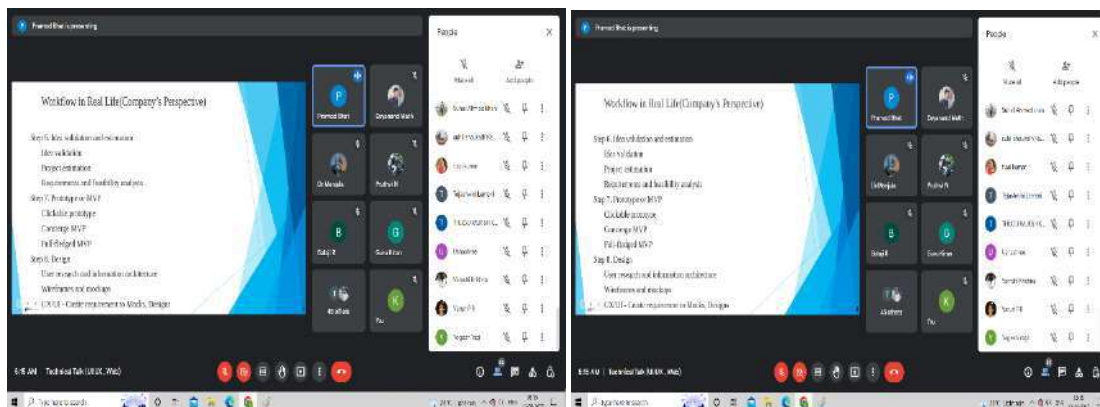
**RESOURCE PERSON**  
  
**Pramod Bhat**  
 Senior Software Developer,  
 GroundStaffing Pvt Ltd.

**Registration Link :** <https://forms.gle/tvW3JeeTzAN6Yfj6B>  
**Meeting Link :** <https://meet.google.com/cen-brwe-xxc>

**Kimmi Kumari**  
Faculty Coordinator

**Dr. Manjula Sanjay**  
Prof. & HOD MCA, DSATM

**Dr. RaviShankar M**  
Principal, DSAIM





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## Department of Master of Computer Applications



### CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	3	3	3	-	-	-	-	-
CO2	-	-	-	-	3	-	-	-	3	-	3	3

### CO-PO Justifications

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO6	3	Strongly mapped as the students will be able to apply and commit professional ethics and cyber regulations in a global economic environment.
	PO7	3	Strongly mapped as the students will be able to recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
CO2	PO5	3	Strongly mapped as few students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
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	PO11	3	Strongly mapped as the students will be able to work as a member or leader in diverse teams in multidisciplinary environment
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**Department of Master of Computer Applications**

HOD's Signature

Principal's Signature



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## Department of Master of Computer Applications

<b>Event Name</b>	<b>Workshop On Machine Learning, Natural Language Processing &amp; Computer Vision</b>
<b>Theme</b>	<b>Develop new Machine learning methods for Computer vision and Natural language processing that are needed to tackle the big data world.</b>
<b>Date</b>	<b>9-1-2023 to 13-01-2023</b>
<b>Venue</b>	<b>MCA LAB, M Block, DSATM</b>

### Objectives of the Program:

This program objective is unlike algorithmic programming, a machine learning model is able to generalize and deal with novel cases. If a case resembles something the model has seen before, the model can use this prior “learning” to evaluate the case.

The goal is to create a system where the model continuously improves at the task set.

The ultimate goal of NLP is to help computers understand language as well as we do.

It is the driving force behind things like virtual assistants, speech recognition, sentiment analysis, automatic text summarization, machine translation, and much more.

Basics of natural language processing, dive into some of its techniques, and also learn how NLP has benefited from recent advances in deep learning.

### Purpose:

Machine learning has made considerable progress over the past decade, matching and even surpassing human performance on a varied set of narrow computational tasks. This progress has been allowing us to learn complex mathematical functions directly from data. Provided an input, these functions can predict outputs. continues to make significant advances, solving tasks from image classification to translation or reinforcement learning. One aspect of the field receiving considerable attention and its impact on our lives, and the need for regulation in modern societies. The concept of Smart Cities can be understood as a holistic approach to improve the level of development and management of the city in a broad range of services.

**About the Event:** Department of Master of Computer Applications Organized a workshop on “Machine Learning, Natural language processing & Computer vision” presented by the speaker “Dr. Suresh kannaiyan”, Founder, Menmozhi Technologies, 9<sup>th</sup> to 13<sup>th</sup> January 2023 from 9:30 AM to 5.00 pm. Dr. Manjula Sanjay, Prof. & HOD of the MCA Dept addressed the gathering. A warm welcome to the Event and Vote of Thanks delivered by Dr. Manjula Sanjay, Prof. & HOD of MCA. The workshop was attended and well received by the III semester MCA students.

**Resource persons:** “Dr Suresh kannaiyan”, Founder, Menmozhi Technologies.

**Participants:** 3<sup>rd</sup> Sem MCA Students.



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## Department of Master of Computer Applications

**Vision:** The program's vision was to capture the collective intelligence of humans and do a given task better than any individual human can ever do and also focuses on giving **machines** or computers the ability to think as intelligently as humans and in some cases better than humans, learning from a lot of data.

### Identification and addressing the GAP:

Image classification, convolutional neural networks, transfer learning, object detection, and semantic segmentation. Text processing, regression and tree-based models, hyperparameter tuning, recurrent neural networks, attention mechanism, and transformers.

**DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT**  
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Bangalore- 560082

Department of Master of Computer Applications

Workshop  
on

**MACHINE LEARNING, NATURAL LANGUAGE PROCESSING & COMPUTER VISION**

**Resource Person**  
**Dr. Suresh Kannaiyan, Ph.D**  
Founder, Menmozhi Technologies

**Date**  
January 9th - 13th, 2023

**Time**  
09:30 AM - 05:00 PM

**Venue**  
**MCA Lab**

**Coordinator**  
**Mrs. Usha sree R**  
Assistant Professor  
DSATM

**Convenor**  
**Dr. Manjula Sanjay**  
Prof. & HOD-MCA,  
DSATM

**Organising chair**  
**Dr. Ravishankar M**  
Principal, DSATM



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**Department of Master of Computer Applications**





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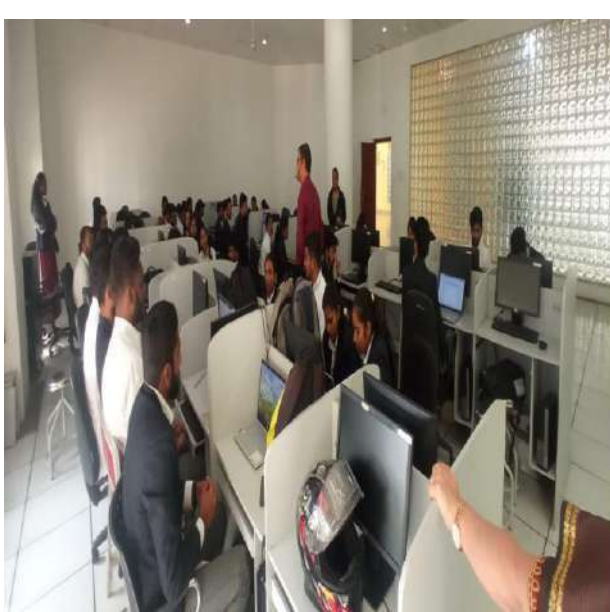
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## Department of Master of Computer Applications

### Course Outcomes:

**CO1:** To be able to design, and implement, Machine learning models, NLP neural network models, using the Pytorch framework.

**CO2:** Identity, formulate and solve problems in image processing and computer vision.

SL No.	CO'S	RBT Levels
1	CO1	Create
2	CO2	Evaluate

### CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	3	-	-	-	-	-	3	-
CO2	-	-	-	-	-	-	-	-	-	3	-	-

### CO-PO Justifications

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills, and techniques necessary for innovative software solutions
	PO11	3	Strongly mapped as the students will be able to develop the ability to engage in continuous learning as a Computing professional.
CO2	PO10	3	Strongly mapped as students will be able to select modern computing tools, and solve societal issues.

HOD's Signature



**Department of Master of Computer Applications**

<b>Event Name</b>	<b>FDP ON ESP32 IOT Development Board</b>
<b>Theme</b>	<b>ESP32 IOT Development Board</b>
<b>Date</b>	<b>23<sup>rd</sup> to 28th December 2022</b>
<b>Venue</b>	<b>4<sup>th</sup> Floor, MCA Dept, M Block, DSATM</b>

**Objectives of the Program/ Event:**

- 1.The objective of this course is to provide learners with an engaging, exploratory view of the digital transformation that is taking place in businesses and the world to encourage the learner to continue in the IOT fundamental course pathway.
- 2.Understand about the fundamentals of IoT and its building blocks, along with their characteristics.
- 3.Understand the recent application domains of IOT in everyday life.

**Purpose:**

The Internet of Things (IoT) is a changing dynamic in the field of education. The adaptation of the digital tools is not just making education omnipresent but also it is making traditional systems of education more efficient and inclusive. Faculty development program on ESP32 IOT development board. Training faculties on ESP32 IOT development board.

**About the Event:** Department of Master of Computer Applications Organized FDD on ESP32 IOT Development board” presented by “Dr Srinivas Shetty” on 23rd to 28th December 2022. Dr. Manjula Sanjay, Prof. & HOD of MCA Dept addressed the gathering.

**Resource person:** Dr. Srinivas Shetty, Professor, dept of CSE, BNMIT, Bangalore.

**Participants:** Faculties of ECE, EEE, CSE, ISE, MCA.

**Vision:** The vision of the program was to enable the faculties to understand device evolution, cloud-based application innovation and the proliferation of communication technologies within all industries will ensure the exponential growth in the demand for IOT-based mobile-connected devices. As a result, the expected throughput and performance of each device will continue to increase in the next decade.

**Identification and addressing the GAP:**

- Understanding the skill set required in a new employee in embedded industry.
- Understanding the robotics future and scope Understanding the different microcontroller available in the industry & their use.
- In-depth knowledge on design, construction and programming concepts involved in building an autonomous robot Learn & Interact with renowned Industry Experts.



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## Department of Master of Computer Applications

### Course Outcomes:

1. CO1: Apply the basic programming to support IoT devices


2. CO2: Dev


SL No.	CO'S	RBT Levels
1	CO1	Applying (A) , Analyse (AN)
2	CO2	Remembering (R) , Understand (U)

**Chief Patrons:**

  
 Founder MGVPT Trust

  
 Dr. D Hemachandra sagar  
 Chairman, DSI

  
 Dr. D Prerna Chandra sagar  
 VC & CEO, DSI

  
 Sri. Ganeswamy  
 Secretary, DSI

*FDP On ESP32 IOT Development Board*

**ORGANISING CHAIR**

Dr. M Ravishankar,  
Principal, DSATM

**CONVENER**

Dr. Manjula Sanjay  
Prof & Head, MCA, DSATM

**About DSATM**

Dayananda Sagar Academy of Technology and Management (TC) is approved by the All India Council for Technical Education (AICTE), Govt. of India, and affiliated with Visvesvaraya Technological University. It has the widest choice of Engineering Branches having 9 Under Graduate Courses, B. Architecture, MBA, and MCA programs. DSATM is Accredited with NAAC A+ grade and NBA with 6 departments accredited. To strive at creating the institution a center of the highest caliber of learning, so as to create an overall intellectual atmosphere with each deriving strength from the other to be the best of engineers, and scientists with management & design skills.

**About Department of MCA**


The MCA program at Dayananda Sagar Academy of Technology & Management is affiliated to VTU, Belagavi & approved by AICTE, with an intake of 60. The duration of the MCA program is 2 years. The department believes that Innovative Teaching-Learning methods coupled with problem solving using modern tools helps the students to enhance their skills & enable them to handle the challenges faced in their professional life.

The students are encouraged to participate in extracurricular & Co-curricular activities along with regular academic activities. The students get an opportunity to enhance their skills through Technical Talks, Workshops, Alumni Interaction & Industrial visits.

The department encourages faculties and students to participate in National/International conferences to exhibit their ideas in the form of presentations and also publications in peer reviewed Journals. The department has dedicated & committed faculty members supported by technical & administrative staff. The faculties are actively involved in research.

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*FDP On ESP32 IOT Development Board*

**Organized By**


**Department of Master of Computer Applications**

On 23<sup>rd</sup>, 24<sup>th</sup> December 2022 & 14<sup>th</sup> January 2023



**Department of Master of Computer Applications**


*FDP On ESP32 IOT Development Board*



**RESOURCE PERSON**

**DR. SRINIVAS SHETTY**  
PROFESSOR, DEPT OF CSE,  
BNMIT, BENGALURU

**DATE**



**TIME**  
**10:00 AM**

*FDP On ESP32 IOT Development Board*

*Course objectives*

1. The objective of this course is to provide learners with an engaging, exploratory view of the digital transformation that is taking place in business world.
2. Understand the fundamentals of IoT and its building blocks.
3. Understand the recent application domains of IoT in every day life.

*Course outcomes*

1. Classify various sensing devices and actuator types.
2. Apply the basic programming to support IoT devices
3. Provides values to digital business society Benefits of automation in the digitized world.

**TOPICS COVERED**  
**DAY 1 & DAY 2**

Sl. no	Topic
1	Exploring ESP32 IOT Development Board <b>Software:</b> MicroPython Embedded C Arduino IDE
2	Flash an LED at a given on time and off time cycle, where the two times are taken from a file. Get input from two switches and switch on corresponding LEDs.
3	Switch on a relay at a given time using Cron, where the relay's contact terminals are connected to a load.
4	Access an image through a Pi web cam
5	Control a light source using web page.
6	Implement an intruder system that sends an alert to the given email
<b>DAY 3</b>	
7	Get the status of a bulb at a remote place (on the LAN) through web.
8	Get an alarm from a remote area (through LAN) if smoke is detected.
9	participants will have hands on experience in using various sensors like temperature, humidity, smoke, light, etc. and should be able to use control web camera, network, and relays connected to the Pi.
10	Exposure to various IOT applications



**CO-PO Mapping**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												
CO2												

**CO-PO Justifications**

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO6	3	Strongly mapped as the students will be able to apply and commit professional ethics and cyber



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Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082



## Department of Master of Computer Applications

			regulations in a global economic environment.
	PO7	3	Strongly mapped as the students will be able to recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
CO2	PO5	2	Moderately mapped as few students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO9	2	Moderately mapped as the few students will be able to communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
	PO11	3	Strongly mapped as the students will be able to work as a member or leader in diverse teams in multidisciplinary environment
	PO12	3	Strongly mapped as the students will be able to identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.

HOD's Signature

Principal's Signature



**Department of Master of Computer Applications**

<b>Event Name</b>	<b>WORKSHOP ON BIG DATA ENGINEERING WITH HIVE</b>
<b>Theme</b>	<b>Data Centric Mindset, Data opportunities</b>
<b>Date</b>	<b>23-12-2022 to 24-12-2022</b>
<b>Venue</b>	<b>4<sup>th</sup> Floor, MCA Dept, M Block, DSATM</b>

**Objectives of the Program/ Event:**

This program objective gives an overview of Big Data, i.e., storage, retrieval and processing of big data. In addition, it also focuses on the “technologies”, i.e., the tools/algorithms that are available for storage, processing of Big Data. It also helps a student to perform a variety of “analytics” on different data sets and to arrive at positive conclusions.

**Purpose:**

The purpose of the event is to educate students regarding Big Data and its analytics in the real world, Analyze the Big Data framework like Hadoop and NoSQL to efficiently store and process Big Data to generate analytics, and design algorithms to solve Data-Intensive Problems using Map Reduce Paradigm. Design classification models for various standard datasets and user datasets.

- Develop clustering techniques and association rules for large standard datasets and user datasets.
- Analyse large-scale data using MapReduce programming which includes JAVA and HADOOP frameworks.
- Analyse large-scale data using PIG and HIVE.

**About the Event:** Department of Master of Computer Applications Organized a workshop on “Big Data Engineering with Hive” presented by the speakers “Mr. Mahanthaswamy veerana”, Director “Mr. Arun K”, Data Engineer, Blismos Solutions Pvt. On 23rd, & 24<sup>th</sup> December 2022 from 9:30 AM to 5.00 pm. Dr. Manjula Sanjay, Prof. & HOD of MCA Dept addressed the gathering. Warm welcome to the Event and Vote of Thanks delivered by Dr. Manjula Sanjay, Prof. & HOD of MCA. The workshop was attended and well received by the III semester MCA students.

**Resource persons:** “Mr. Mahanthaswamy veerana”, Director “Mr. Arun K”, Data Engineer, Blismos Solutions Pvt Ltd, Bangalore.

**Participants:** 3<sup>rd</sup> Sem MCA Students.

**Vision:** The program's vision was to enable the students to understand Big Data frameworks like Hadoop and NoSQL to efficiently store and process Big Data to generate analytics and



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be aware of the new techniques and technology in demand in the IT sector. The overall vision is to make the student's future-ready for placement.

### Identification and addressing the GAP:

Achieving a Big Data Hadoop prepares the students for success as Big Data Developers.

### Course Outcomes:

1. **CO1:** Analyze the Big Data framework like Hadoop and NoSQL to efficiently store and process Big Data to generate analytics

2. **CO2:** Design of Algorithms to solve Data Intensive Problems using Map Reduce Paradigm

SL No.	CO'S	RBT Levels
1	CO1	Applying (A) , Analyse (AN)
2	CO2	Applying (A) , Analyse (AN)



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 Accredited with A+ Grade



### Department of Master of Computer Applications

#### Workshop

on

## BIG DATA ENGINEERING WITH HIVE

#### Resource Persons

**Venue**

**M BLOCK 4th Floor**

**MCA dept**



**Mr. Mahanthaswamy Veeranna**  
 Director  
 Blismos Solutions Pvt Ltd



**Mr. Arun K**  
 Data Engineer  
 Blismos Solutions Pvt Ltd

**Date**

**23<sup>rd</sup> & 24<sup>th</sup> December**

**2022**

**Mrs Ushasree R**  
 Assistant professor  
 MCA,DSATM

**Dr. Manjula Sanjay**  
 Prof. & HOD  
 MCA, DSATM

**Dr. Ravi Shankar M**  
 Principal, DSATM



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## Department of Master of Computer Applications



### CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	3	3	3	-	-	-	-	-
CO2	-	-	-	-	2	-	-	-	2	-	3	3

### CO-PO Justifications

CO's	PO's	CL	Justifications
CO1	PO5	3	Strongly mapped as the students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO6	3	Strongly mapped as the students will be able to apply and commit professional ethics and cyber regulations in a global economic environment.
	PO7	3	Strongly mapped as the students will be able to recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
CO2	PO5	3	Strongly mapped as students will be able to select modern computing tools, skills and techniques necessary for innovative software solutions
	PO9	2	Moderately mapped as the few students will be able to communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
	PO11	3	Strongly mapped as the students will be able to work as a member or leader in diverse teams in multidisciplinary environment
	PO12	3	Strongly mapped as the students will be able to identify opportunities, entrepreneurship vision and



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**Department of Master of Computer Applications**

			use of innovative ideas to create value and wealth for the betterment of the individual and society.
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HOD's Signature

## Department of MCA

**Technical Talk IOS App Development Organized by MCA Dept. DSATM, Bengaluru,**  
**Resource Person: - Mr. Mohammed Zaidur Rahman, Technical Trainer**

**Date: 09-July-2022**



**Workshop on AI & ML Organized by MCA Dept. DSATM, Bengaluru,**  
**Resource Person: -Dr. Ashok Rao, Director, NIE Mysore**  
**Date: - 23<sup>rd</sup> July 2022**

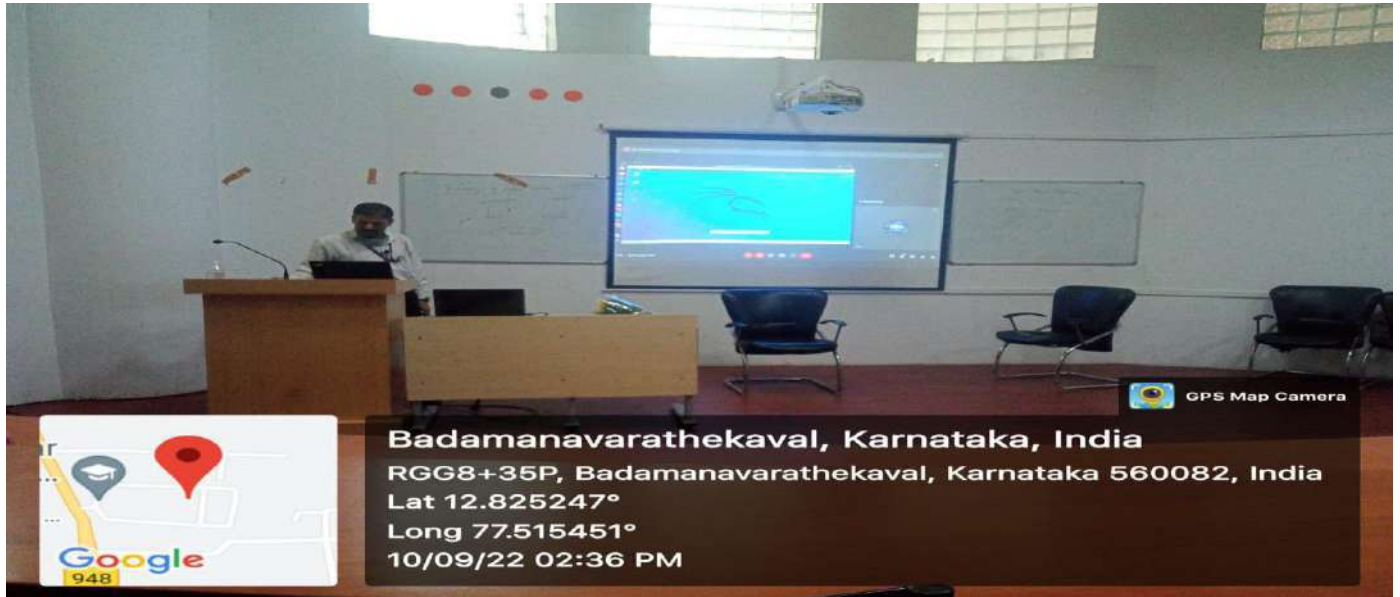


**Workshop on AR & VR Organized by MCA Dept. DSATM, Bengaluru,**  
**Resource Person: -Mr. Ashray Pai**  
**Date: - 7<sup>th</sup> sept 2022**

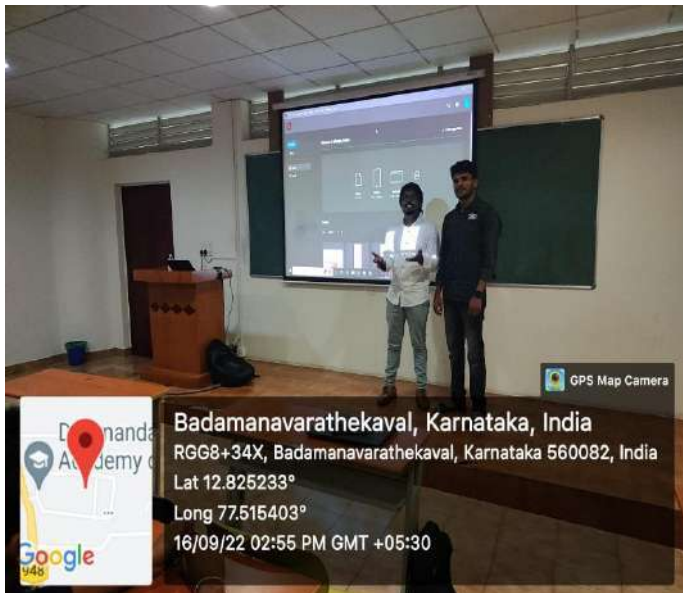


## Workshop and Hands on session on Cybersecurity Organized by MCA Dept. DSATM, Bengaluru,

Resource Person: -Dr. Manish Kumar, Assistant Professor, Dept of CS, MS Ramaiah, Bangalore  
Date: - 10<sup>th</sup> sept, 2022



**Workshop UX design Organized by MCA Dept. DSATM, Bengaluru,**  
**Resource Person: -Mr. Pruthvi Raj K, Junior graphic designer, Indigene, Bangalore.**  
**Date: - 16<sup>th</sup> sept 2022**



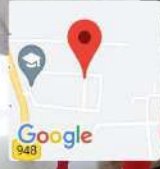
**Aptitude training Organized by MCA Dept. DSATM, Bengaluru,**  
**Date: - 05-07-2022 to 09-07-22**



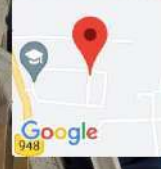


**Group Discussion Training Organized by MCA Dept. DSATM, Bengaluru,**  
**Date: 8<sup>th</sup> July 2022**





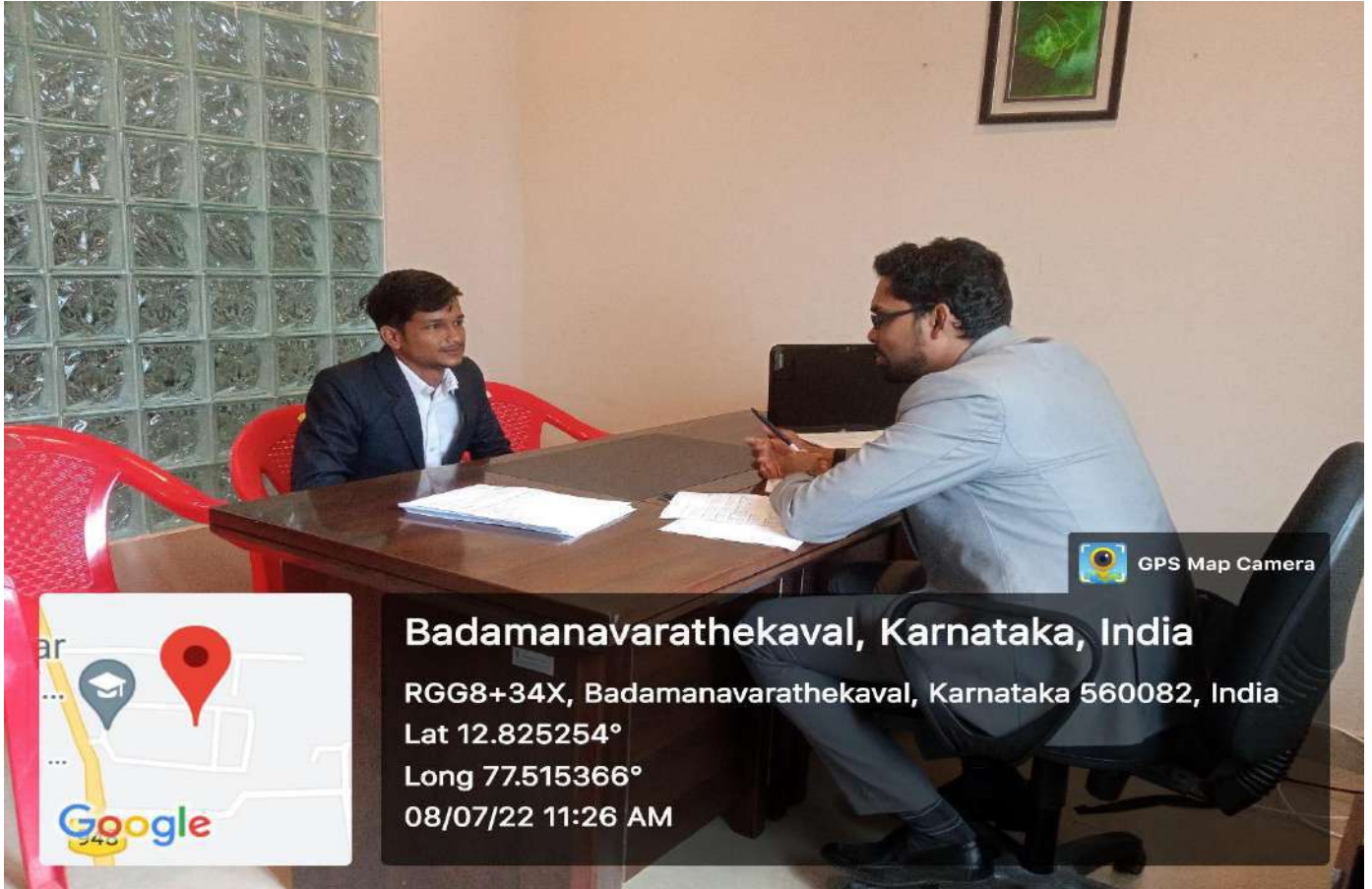
**Badamanavarathekaval, Karnataka, India**  
Block-C, Dayananda Sagara Educational Institution, Bengaluru,  
Karnataka 560082, India  
Lat 12.82544°  
Long 77.515684°  
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**Badamanavarathekaval, Karnataka, India**  
Block-C, Dayananda Sagara Educational Institution, Bengaluru,  
Karnataka 560082, India  
Lat 12.82542°  
Long 77.51572°  
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**Personal Interview Training Organized by MCA Dept. DSATM, Bengaluru,  
 Date: 8<sup>th</sup> July 2022**



GPS Map Camera

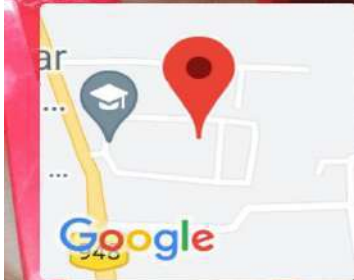
**Badamanavarathekaval, Karnataka, India**

RGG8+34X, Badamanavarathekaval, Karnataka 560082, India

Lat 12.825254°

Long 77.515366°

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GPS Map Camera

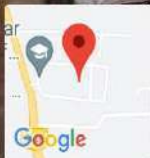
**Badamanavarathekaval, Karnataka, India**

RGG8+34X, Badamanavarathekaval, Karnataka 560082, India

Lat 12.825061°

Long 77.515291°

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GPS Map Camera

**Bengaluru, Karnataka, India**

Udayapura, RGG8+33C, Kanakapura Rd, Bengaluru, Karnataka 560082, India

Lat 12.825266°

Long 77.514966°

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## Industrial Conclave-2022 Organized by DSATM, Bengaluru

Date: - 24-09-2022 to 09-07-22



