



**B. L. D. E. ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE, VIJAYAPUR
M.Sc(CS) Programme**



From,
Co-ordinator,
M.Sc(CS) Programme,
S.B. Arts and K.C.P. Science College,
Vijayapur.

To,
The Principal,
S.B. Arts and K.C.P. Science College,
Vijayapur.

Subject: Proposal for starting up of new value added course....

Respected Madam,

We have planned to start a new value added course based on the subject
“**Computer Vision Using MATLAB**” which is an Image/Video Processing Tool. The details of
the course is as follows

Class	Title of the Course	Course Code	Total Hrs	Course Co-ordinator	Assessment Type
M.sc (CS) I and III sem	Computer Vision Using MATLAB	23PGVACS01	30Hrs	Dr. D. A.Mulimani	Descriptive

Objectives of VAC:

- Students will get to know about new tool
- Student will learn the different image patterns and video processing methods
- Through this VAC students will gain idea about different image processing methodologies over varies fields/Applications/Domains

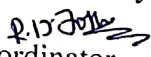
Course outcome:

Students will be able to do the real time mini projects on various video frames, medical image processing etc.

With this regards the VAC has been planned. Will looking forwards for your positive response.

Thanking You,

Your's faithfully


Co-ordinator
Co-ordinator

M.Sc. (C.S.) Programme
S.B.Arts & K.C.P. Science College,
Vijayapur.

Date: 25-01-2024
Place: Vijayapur.
Encl: Syllabus Copy





Syllabus for Value Added Course

2023-24

M.Sc(CS) I and III semester - Value Added Course			
Course Title	Teaching Hrs/Week	Practical Hrs/Week (Including ICT tools)	Total
Computer Vision Using MATLAB	2	4	6hrs X 5wks
Course code: 23PGVACS01		Total Hrs	30Hrs

❖ Model of Teaching Methods - Concept Based, Application Approach Tools (Audio/Video)

❖ Mode of Evaluation – Seminar, Case study Report

I. Theory Syllabus

UNIT-I: Introduction to MATLAB and DIP:

02 Hr

MATLAB installation, tool overview, The Origins of Digital Image Processing, Applications of Digital Image Processing, Fundamental Steps in Digital Image Processing

UNIT-II: Image Restoration/Reconstruction: COLOR IMAGE PROCESSING: 03 Hr

Some Basic Intensity Transformation Functions, Histogram Processing, Color Fundamentals, Color Models, Basics of Full-Color Image Processing, Color Transformations, Smoothing and Sharpening, Image Segmentation Based on Color, Noise in Color Images, Color Image Compression.

UNIT-III: Image Compression, Segmentation

03 Hr

Fundamentals, Some Basic Compression Methods, Digital Image Watermarking, Summary, , Problems, Fundamentals, Point, Line, and Edge Detection, Thresholding, Region-Based, Segmentation Using Morphological Watersheds, Advantages of Compression using MATLAB

UNIT-IV: Object Recognition and Video Processing in MATALB

02Hr

Background Processing, Foreground evaluation, Object detection, Object tracking, video filtering process. Applications of video processing using MATLAB

Reference Book

1. **Digital Image Processing** – Rafael C Gonzalez and Richard E Woods, 3rd Edition, Pearson Education, 2003.

❖ **Practice Programs on MATLAB**

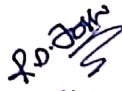
10Hr

1. Image Sampling : Write a program to change the spatial resolution to 128×128 , 64×64 , and 32×32 pixels. Resize the images back to the original size 256×256 images and print them for comparison purposes. Image extraction and display in matrix sub plotting function
2. Image segmentation and thresholding on image samples
3. Basic programs and mathematical functions using MATLAB
4. Histogram equalization and intensity transformation on different IMAGE
5. Apply Different Morphological operations on two image samples.
6. Different Noise modes in MATLAB and noise removal techniques using MATLAB
7. Frame extraction and video reading using MATLAB
8. Foreground and background evaluation in video using MATLAB

❖ **Implement Mini Project :**

10Hr

1. Implement simple project to identify object in image stream stored in sample image database.
2. Implement face detection and recognition in the image data base using MATLAB
3. Implementation of Image Segmentation and Feather Extraction on MRI image Samples.
4. Implementing Object detection Process for Grapes leaf Disease Detection on Few samples.


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Date: 29-01-2024

NOTICE

All the students of M.Sc (CS) I and III Semester here by informed to register your name to Value Added Course **(Computer Vision Using MATLAB)** that will be conducted from 05/02/2024 to 12/03/2024. Further course will be conducted daily one hour. All the students of M.Sc (CS) informed to take its benefit.

[Signature]

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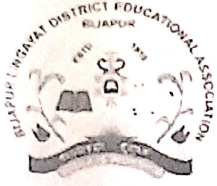
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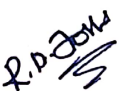


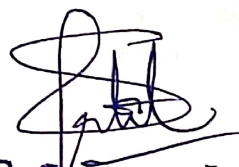
VALUE ADDED COURSE TIME TABLE 2023-2024

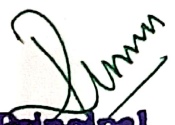
Course Title: Computer Vision using MATLAB

Class: M.Sc(CS) I and III Sem

Day	Time	TH/LAB
Monday	3.00pm to 4.00pm	Theory L.H 1
Tuesday	3.00pm to 4.00pm	
Wednesday	3.00pm to 5.00pm	Practical CS - LAB
Thursday	3.00pm to 5.00pm	


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M.Sc(CS) PROGRAMME
VALUE ADDED COURSE Student Enrolled 2023-2024



Student Enrolled List

S/no	UUCMS NO	Name
1	P15KM23S038001	NAGARAJ PAWAR
2	P15KM23S038002	NAVYA VYASATEERTH UTTARESHWAR
3	P15KM23S038003	SOUMYASHREE R HANDI
4	P15KM23S038004	SAGAR SUNIL KULKARNI
5	P15KM23S038006	PRERANA AGARWAL
6	P15KM23S038007	RAHUL KABADE
7	P15KM23S038008	LAXMI YANKANCHI
8	P15KM23S038005	MOHINODDIN SHAIKH
9	P15KM23S038010	SANDEEP GIRIGOUDAR
10	P15KM23S038011	PRAJWAL ANAND KHOT
11	P15KM22S038001	SAVITA MADAR
12	P15KM22S038002	PRAJWAL YALGUDRI
13	P15KM22S038003	ANUSHA A KULKARNI
14	P15KM22S038004	GURURAJ PARAPPA JATTI
15	P15KM22S038005	DUNDAYYA PUJERI
16	P15KM22S038007	PALLAVI HADIMURNAVAR
17	P15KM22S038008	AISHWARYA ANANTAPUR
18	P15KM22S038011	SUSHMITA BASAVARAJ TADASALUR
19	P15KM22S038012	MARUTI KANADE
20	P15KM22S038013	SUDHA MAJJAGI

P.D. Jethi
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Slno	UUCMS NO	Name	1	2	3	4	5	6	7	8	9	10	Total
			5/2	6/2	7/2	8/2	9/2	10/2	12/2	13/2	14/2	15/2	
1	P15KM23S038001	NAGARAJ PAWAR	1	2	3	-	-	4	5	6	7	8	
2	P15KM23S038002	NAVYA VYASATEERTH UTTARESHWAR	1	2	3	4	5	6	7	-	-	8	
3	P15KM23S038003	SOUMYASHREE R HANDI	1	2	3	4	5	6	7	8	9	10	
4	P15KM23S038004	SAGAR SUNIL KULKARNI	1	2	3	4	5	6	7	8	9	10	
5	P15KM23S038006	PRERANA AGARWAL	1	2	3	4	5	6	7	8	9	10	
6	P15KM23S038007	RAHUL KABADE	-	-	1	2	3	-	4	-	5	6	
7	P15KM23S038008	LAXMI YANKANCHI	1	2	3	4	5	6	7	8	9	10	
8	P15KM23S038005	MOHINODDIN SHAIKH	-	1	2	3	4	4	5	6	7	8	
9	P15KM23S038010	SANDEEP GIRIGUDAR	1	2	3	-	-	4	5	6	7	8	
10	P15KM23S038011	PRAJWAL ANAND KHOT	1	2	3	4	5	6	7	8	9	10	
11	P15KM22S038001	SAVITA MADAR	1	2	3	4	5	6	7	8	9	10	
12	P15KM22S038002	PRAJWAL YALGUDRI	1	2	3	4	5	6	7	8	9	10	
13	P15KM22S038003	ANUSHA A KULKARNI	1	2	3	4	5	6	7	8	9	10	
14	P15KM22S038004	GURURAJ PARAPPA JATTI	1	2	3	4	-	5	-	6	7	8	
15	P15KM22S038005	DUNDAYYA PUJERI	-	-	-	-	-	1	2	3	4	5	
16	P15KM22S038007	PALLAVI HADIMURNAVAR	1	2	3	4	5	6	7	-	8	9	
17	P15KM22S038008	AISHWARYA ANANTAPUR	-	1	2	3	-	-	4	5	6	7	
18	P15KM22S038011	SUSHMITA BASAVARAJ TADASALUR	-	-	-	1	2	3	4	5	6	-	
19	P15KM22S038012	MARUTI KANADE	1	2	3	4	-	5	6	-	7	8	
20	P15KM22S038013	SUDHA MAJJAGI	1	2	3	4	5	-	6	-	7	8	
Faculty Sign													

P. D. J. Shinde

Co-ordinator

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S/no	UUCMS NO	Name	1	2	3	4	5	6	7	8	9	10	Total
			15/2	20/2	21/2	28/2	29/2	7/2	28/2	29/2	4/3	5/3	
1	P15KM23S038001	NAGARAJ PAWAR	9	10	10	11	12	13	14	14	15	16	
2	P15KM23S038002	NAVYA VYASATEERTH UTTARESHWAR	9	9	10	11	12	12	13	14	15	15	
3	P15KM23S038003	SOU MYASHREE R HANDI	10	10	11	12	13	14	15	16	17	18	
4	P15KM23S038004	SAGAR SUNIL KULKARNI	10	11	12	13	14	14	15	15	15	15	
5	P15KM23S038006	PRERANA AGARWAL	10	11	12	13	14	15	16	17	18	19	
6	P15KM23S038007	RAHUL KABADE	7	7	8	9	9	10	10	11	11	11	
7	P15KM23S038008	LAXMI YANKANCHI	11	12	13	14	14	15	16	17	18	19	
8	P15KM23S038005	MOHINODDIN SHAIKH	9	10	10	11	11	12	13	14	15	15	
9	P15KM23S038010	SANDEEP GIRIGOUDAR	9	10	11	12	13	14	14	14	15	16	
10	P15KM23S038011	PRAJWAL ANAND KHOT	10	11	12	13	14	14	15	16	17	18	
11	P15KM22S038001	SAVITA MADAR	10	11	12	13	14	15	16	16	17	18	
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18	P15KM22S038011	SUSHMITA BASAVARAJ TADASALUR	7	8	9	10	11	12	13	14	15	16	
19	P15KM22S038012	MARUTI KANADE	9	10	11	12	13	14	15	16	16	17	
20	P15KM22S038013	SUDHA MAJJAGI	9	10	11	12	13	13	14	14	15	15	
Faculty Sign			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

R.D. Jadhav
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2	P15KM23S038002	NAVYA VYASATEERTH UTTARESHWAR	16	17	17	17	18	18	19	19	20	21	21
3	P15KM23S038003	SOUMYASHREE R HANDI	18	18	19	20	21	22	23	24	25	26	26
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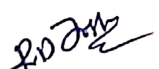
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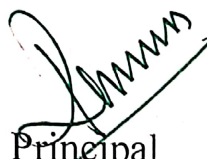
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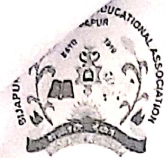
NOTICE

All the students of M.Sc (CS) I and III Semester here by informed that Value Added Course (**Computer Vision Using MATLAB**) Theory Test will be Conducted (MCQ-online and Descriptive-written) on 27/03/2024 at 11.00 am in Computer Lab. All the students have to appear for the test without fail.


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Theory Test Question Paper For VAC

Paper I: Descriptive
Duration: 11.00 to 11.30 am

Marks: 10M
Date: 27-03-2024

I. Answer any Two of the Following **2X5 = 10**

1. What is Computer Vision? Explain Image processing techniques in brief.
2. What are the different Image Filtering techniques? Explain any 5
3. What are difference between image segmentation and thresholding?

=====

Paper II: MCQ
Duration: 11.30 to 12.00pm

Marks: 20M
Date: 27-03-2024

II. Answer All the following Questions **20X1 = 20**

1. Expansion of png image format is

- a) Print Network Graphics
- b) Portable network Graphics
- c) Photo Network Graph
- d) Photo Neural Graphics

2. Expansion of GIF

- a) Graphics Interchange Format
- b) Grayscale Image Format
- c) Graph Image File
- d) Graphic Image Format

3. Which of the following makes an image difficult to enhance?

- a) Dynamic range of intensity levels
- b) High noise
- c) Narrow range of intensity levels
- d) All of the mentioned





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4. Which of the following is the application of Histogram Equalization?
 - a) Blurring
 - b) Contrast adjustment
 - c) Image enhancement
 - d) None of the Mentioned

5. Which of the following is the expansion of PDF, in uniform PDF?
 - a) Probability Density Function
 - b) Previously Derived Function
 - c) Post Derivation Function
 - d) Portable Document Format

6. Which of the following fact is correct for an image?
 - a) An image is the multiplication of illumination and reflectance component
 - b) An image is the subtraction of reflectance component from illumination component
 - c) An image is the subtraction of illumination component from reflectance component
 - d) An image is the addition of illumination and reflectance component

7. _____ enhance Image Differentiation?
 - a) Pixel Density
 - b) Contours
 - c) Edges
 - d) None of the mentioned

8. Which of the following illustrates three main types of image enhancing functions?
 - a) Linear, logarithmic and power law
 - b) Linear, logarithmic and inverse law
 - c) Linear, exponential and inverse law
 - d) Power law, logarithmic and inverse law



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9. Which of the following is the abbreviation of JPEG?
 - a) Joint Photographic Experts Group
 - b) Joint Photographs Expansion Group
 - c) Joint Photographic Expanded Group
 - d) Joint Photographic Expansion Group

10. _____ determines the quality of a digital image.
 - a) The discrete gray levels
 - b) The number of samples
 - c) discrete gray levels & number of samples
 - d) None of the mentioned

11. Which of the following is the next step in image processing after compression?
 - a) Representation and description
 - b) Morphological processing
 - c) Segmentation
 - d) Wavelets

12. Which of the following image processing approaches is the fastest, most accurate, and flexible?
 - a) Photographic
 - b) Electronic
 - c) Digital
 - d) Optical

13. Which of the following statement describe the term pixel depth?
 - a) It is the number of units used to represent each pixel in RGB space
 - b) It is the number of mm used to represent each pixel in RGB space
 - c) It is the number of bytes used to represent each pixel in RGB space
 - d) It is the number of bits used to represent each pixel in RGB space

14. How does picture formation in the eye vary from image formation in a camera?
 - a) Fixed focal length
 - b) Varying distance between lens and imaging plane



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- c) No difference
d) Variable focal length
15. Which of the following is an example of Digital Image Processing?
a) Computer Graphics
b) Pixels
c) Camera Mechanism
d) All of the mentioned
16. Which of the following process helps in Image enhancement?
a) Digital Image Processing
b) Analog Image Processing
c) Both a and b
d) None of the above
17. What is Digital Image Processing?
a) It's an application that alters digital videos
b) It's a software that allows altering digital pictures
c) It's a system that manipulates digital medias
d) It's a machine that allows altering digital images
18. Which of these operations is done, in the spatial domain, on the pixels when we want to sharpen the image?
a. Median
b. Differentiation
c. Average
d. Integration
19. The total pixels in any given region defines the:
a. Brightness
b. Intensity
c. Perimeter
d. Area
20. The first step in Image Processing is:
a. Segmentation
b. Image acquisition
c. Image enhancement
d. Image restoration



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Student Attendance Sheet For VAC Theory Exam Date: 27-03-2024

Sl.Num	Student Name	Class	Sign
1	Anusha Kulkarni	MSc CS III	Anusha
2	Savita Mades	MSc CS III	Savita
3	Prajwal Yelgudai	MSc CS III	Prajwal
4	Dundeyya. Pijeri	MSc CS III	Dundeyya
5	Gururaj. P. Jatti	MSc CS III	Gururaj
6	Sudha. Majjagi	MSc CS III	Sudha
7	Pallavi Hadimuramabha	MSc CS III	Pallavi
8	Nanya. V. Uttarashwar	MSc CS I	Nanya
9	Nagraj. Pawar	MSc CS I st	Nagraj
10	Saemyashree. R. Handi	MSc CS I st	Saemyashree
11	Laxmi. B. Yonkanchi	MSc CS I	Laxmi
12	Prajwal Khot	MSc CS I st	Prajwal
13	Sandeep Chisigoudan	MSc CS I	Sandeep
14	Priyanka Agarwal	MSc CS I	Priyanka
15	Rahul Khabade	MSc CS I	Rahul
16	Aishwarya Anantpur	MSc CS III	Aishwarya
17	Sahana Jalawadi	MSc CS III	Sahana
18	Saahas Kulkarni	MSc CS I	Saahas

R.D. Jadhav

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M.Sc(CS) Programme
Value Added Course



Individual Score Sheet

Email	Score / 20	Score released on	Descriptive /10
1. anushakulkarni311@gmail.com	18	Mar 27 11:42 AM	10
2. navyavu@gmail.com	17	Mar 27 11:42 AM	10
3. laxmiyankanchi539@gmail.com	16	Mar 27 11:43 AM	9
4. nagarajpawar2001@gmail.com	14	Mar 27 11:44 AM	10
5. soumyahandi@gmail.com	18	Mar 27 11:45 AM	10
6. sandeepgirigoudar@gmail.com	12	Mar 27 11:46 AM	7
7. prajwalkhot007@gmail.com	16	Mar 27 11:46 AM	9
8. prajwalyalagudri52392@gmail.com	15	Mar 27 11:47 AM	9
9. jattigururaj@gmail.com	16	Mar 27 11:47 AM	8
10. anantapuraishwarya@gmail.com	18	Mar 27 11:47 AM	10
11. pawarnagaraj30@gmail.com	18	Mar 27 11:47 AM	10
12. savitamadar16@gmail.com	16	Mar 27 11:48 AM	8
13. preragarwal@gmail.com	17	Mar 27 11:48 AM	8
14. tadasalursushmita38@gmail.com	19	Mar 27 11:49 AM	8
15. thenamesaaku@gmail.com	10	Mar 27 11:49 AM	8
16. sudhamajjagi123@gmail.com	17	Mar 27 11:50 AM	10
17. rahul323@gmail.com	10	Mar 27 11:55 AM	AB
18. dundayya@gmail.com	10	Mar 27 12:00 PM	AB

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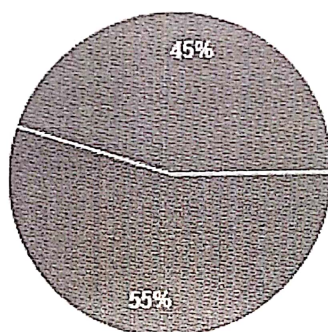
Response Sheet For VAC Test

Total Questions : 20
Time : 30min

Marks: 20M
Pattern: MCQ

Semester

20 responses



● M.Sc I Sem
● M.Sc III Sem

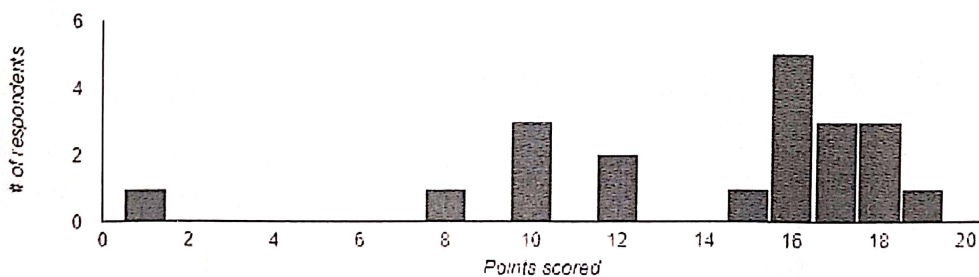
Insights

Average
14.1 / 20 points

Median
16 / 20 points

Range
1 - 19 points

Total points distribution

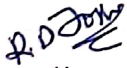




Date: 26-03-2024

NOTICE

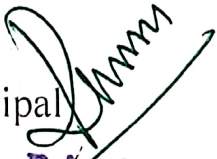
All the students of M.Sc (CS) I and III Semester here by informed that Value Added Course (**Computer Vision Using MATLAB**) Practical Test will be Conducted on 30/03/2024 at 11.00 am in Computer Lab. All the students have to appear for the test without fail.


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M.Sc(CS) Programme
Value Added Course**



Practical Test Question Paper For VAC

Sub: MATLAB 2019a LAB

Date: 30-03-2024

Max Marks : 20M

Duration: 11.00am to 12.00 pm

I . Execute any one Program using MATLAB

20M

1. Write MATLAB code for image equalization and Image Histogram. Display the result.
2. Write MATLAB code for automatic certificate generation and store in the selected directory.





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Student Attendance Sheet For VAC Practical Exam Date: 30-03-2024

Sl.Num	Student Name	Class	Sign
1	Anusha Kulkarni	MSc CS III	<i>Anusha</i>
2	Savita madar	MSc CS III	<i>Smt</i>
3	Sudha Majjagi	MSc CS III	<i>Sudha</i>
4.	Dundayya. Pujeri	MSc CS III	<i>Dundayya</i>
5	pallavi Hadimuravavoro	MSc CS III	<i>Pallavi</i>
6	Gururaj. P. Jatti	MSc CS III	<i>Gururaj</i>
7	Prajwal. Yalagudri	MSc CS III	<i>Prajwal</i>
8)	Nagaraj. Pawar	MSc CS Ist	<i>Nagaraj</i>
9.	Namya. V. M	MSc C.S Ist	<i>Namya</i>
10.	Saemyashree R. Handi	MSc. CS. Ist	<i>Saemyashree</i>
11	Laxmi. H. Yankarshi	MSc. CS. I	<i>Laxmi</i>
12	Prajwal Khot	MSc. CS I	<i>Prajwal</i>
13]	Sandeep Gishigoudan	MSc. CS I	<i>Sandeep</i>
14)	Prerana Agarwal	MSc - CS I	<i>Prerana</i>
15)	Rahul Khabade	MSc - CS I	<i>Rahul</i>
16)	Aishwarya Anantapur	MSc-CS II	<i>Aisha</i>
17)	Sahana. Jalawadi	MSc. CS III	<i>Sahana</i>
18)	Sagar Kulkarni	MSc CS I	<i>Sagar</i>

[Signature]

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BLDEA's
S.B ARTS AND KCP SCIENCE COLLEGE VIJAYAPUR
M.Sc(CS) PROGRAMME
VALUE ADDED COURSE 2023-2024



Score Sheet

Sno	UUCMS NO	Name	Theory	Practical	Sign
			30M	20M	
1	P15KM23S038001	NAGARAJ PAWAR	24	18	<i>Nagaraj</i>
2	P15KM23S038002	NAVYA VYASATEERTH UTTARESHWAR	27	19	<i>Navya</i>
3	P15KM23S038003	SOUMYASHREE R HANDI	28	20	<i>Sehanda</i>
4	P15KM23S038004	SAGAR SUNIL KULKARNI	28	18	
5	P15KM23S038006	PRERANA AGARWAL	25	19	<i>Prerana</i>
6	P15KM23S038007	RAHUL KABADE	10	9	<i>Rahul</i>
7	P15KM23S038008	LAXMI YANKANCHI	25	19	<i>Laxmi</i>
8	P15KM23S038005	MOHINODDIN SHAIKH	AB	AB	
9	P15KM23S038010	SANDEEP GIRIGOUDAR	22	15	<i>Sandeep</i>
10	P15KM23S038011	PRAJWAL ANAND KHOT	26	17	<i>Prajwal</i>
11	P15KM22S038001	SAVITA MADAR	24	18	<i>Savita</i>
12	P15KM22S038002	PRAJWAL YALGUDRI	25	17	<i>Prajwal</i>
13	P15KM22S038003	ANUSHA A KULKARNI	28	18	<i>Anusha</i>
14	P15KM22S038004	GURURAJ PARAPPA JATTI	24	19	<i>Gururaj</i>
15	P15KM22S038005	DUNDAYYA PUJERI	10	9	
16	P15KM22S038007	PALLAVI HADIMURNAVAR	22	18	<i>Pallavi</i>
17	P15KM22S038008	AISHWARYA ANANTAPUR	28	19	<i>Aisha</i>
18	P15KM22S038011	SUSHMITA BASAVARAJ TADASALUR	27	12	
19	P15KM22S038012	MARUTI KANADE	15	AB	<i>Maruti</i>
20	P15KM22S038013	SUDHA MAJJAGI	27	18	<i>Sudha</i>
	Course Coordinator: Dr. D.A.Mulimani				<i>DM</i>

D.A. Mulimani
Co-ordinator

M.Sc. (C.S.) Programme

**S.B.Arts & K.C.P.Science College,
Vijayapur**

D.A. Mulimani
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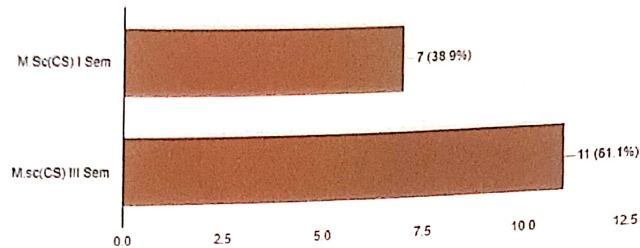
D.A. Mulimani
Principal
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Feedback on VAC

Semester
18 responses

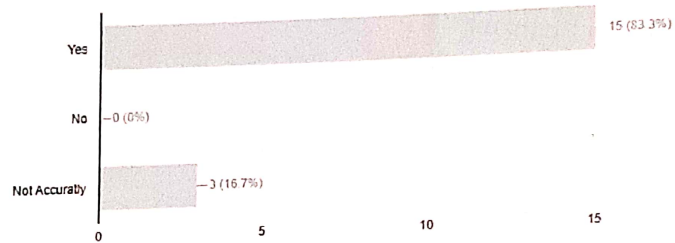
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Do you think value added courses are helpful to enhance the Technical Skills ?

Copy

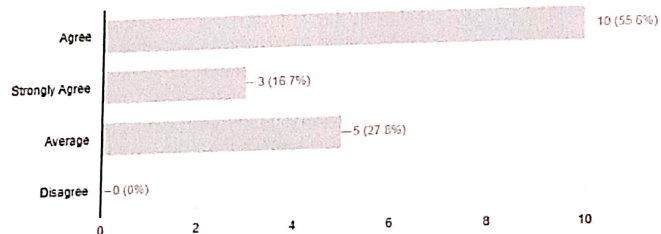
0 / 18 correct responses



The course gave me the confidence to do more advanced work in the project

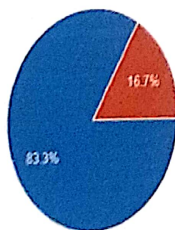
Copy

0 / 18 correct responses



Content of VAC was relevant to the field and conveyed to all students

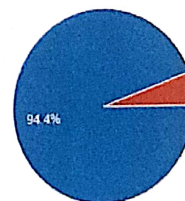
18 responses



● Satisfied
● Average
● Not Satisfied

Do you feel this VAC help you to get professional grown in your career?

18 responses



● Yes
● No

Page 1

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VALUE ADDED COURSE

Certificate

This is to certify that Mr./Ms. Gururaj Jatti of M.Sc (CS)
Programme Studying III Semester has completed the Value Added Course on
Computer Vision Using MATLAB Conducted by the Department
of M.Sc (CS) during the Academic Year 2023 - 2024


Head of the Department

Co-ordinator

M.Sc. (C.S.) Programme

S.B Arts & K.C.P. Science College,
Vijayapur.

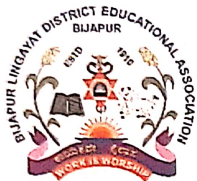

IQAC Co-ordinator


Principal

Principal

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Internal Quality Assurance Cell Initiative

VALUE ADDED COURSE

Certificate

This is to certify that Mr./Ms. Anusha Kulkarni of M.Sc (CS)
Programme Studying IIIrd Semester has completed the Value Added Course on
Computer Vision Using MATLAB Conducted by the Department
of M.Sc (CS) during the Academic Year 2023 - 2024

R. D. Jothi

Head of the Department

M.Sc. (C.S.) Programme

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Vijayapur,

[Signature]

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[Signature]

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