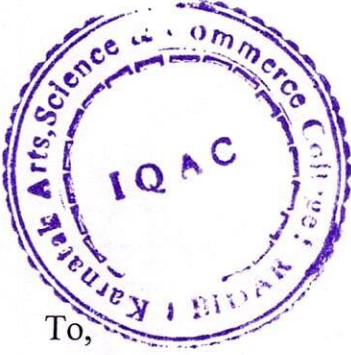


KRE Society's
Karnatak Arts, Science and Commerce College, Bidar
Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning
2021-22

Course Coordinator
Smt. Jyoti Patil

Assistant Professor in Computer Science



Date: 23-11-2021

To,
The Principal
Karnatak Arts, Science and Commerce College, Bidar



Sub: - Request to grant permission to start the Certificate Course on “Deep Learning” for the academic year 2021-22.

Respected sir,

As per the guidelines issued by IQAC, we could like to start certificate course on “Deep Learning” for the academic year 2021-22. with intake 35 students. Please permit us to start the certificate course and do the needful.

Thanking You

HOD

Head

Dept of Computer Science
Karnatak PG & UG College
BIDAR

Principal
PRINCIPAL

Karnatak Arts, Sci. & Com. College
B I D A R - 585 401



KRE Society's

Karnatak Arts, Science and Commerce College, Bidar
Department Of PG Studies and Research in Computer Science



**Meeting minutes for Institutional Board of Studies for Add-on Course on
Deep Learning held on 12/12/2021**

The Institutional Board of Studies of the Department of M.Sc Computer Science for the ass-on-course on **“Deep Learning”** held on 12/12/2021 in Department of M.Sc Computer Science at 11.00AM.

Sl.NO	Name	Institute	Designation
01	Dr.Mallikarjun Hangarge	Head, Department of Computer Science, Karnarak Arts, Science and commerce college Bidar.	Chairman
02	Smt.Shivaleela Patil	Asst Professor Department of computer Science.	Member Internal Expert
03	Smt.Jyoti Patil	Asst Professor Department of computer Science.	Member Internal Expert
04	Dr.Ravichandra B	Asst Professor Department of computer Science.	Member Internal Expert
05	Dr.Pandit Patil	Associate Professor Department of computer Science, GFGC Noubad, Bidar.	External Expert

In the beginning of meeting chair person of the BOS Dr.Mallikarjun Hnagarge welcomed all members and briefed them about the academic activities of the department of M.Sc computer Science .The members expressed their highly appreciation about the course and activities of the department.

The institutional BOS discussed and resolved the following items:

Items 1: Starting of the add-on course on “Deep Learning”

The BOS discussed the item and resolved to start the add-on course on Deep Learning.

Approval of the syllabus for add-on course

The BOS discussed and approved the syllabus for add-on course on Deep Learning.

Items 3: Approval of Admission Criteria

The BOS discussed and approved the criteria for admission and resolved that any student enrolled in PG course in KASCC can enroll in this course. In addition to this BOS also finalized the exam pattern.

Meeting of the BOS was concluded with vote of thanks by Dr. Ravichandra. B, Asst Professor Department of computer Science.

The following members were present in the meeting:

1. Dr.Mallikarjun Hangarge



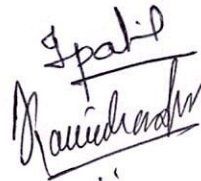
2. Dr.Pandit Patil



3. Smt.Shivaleela Patil




4. Smt.Jyoti Patil



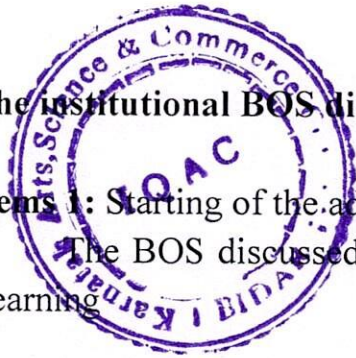
5. Dr.Ravichandra B

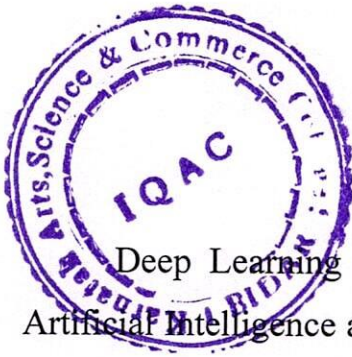


IQAC coordinator



Principal
PAVIN IPAL
Barnatah Arts. Sci. & Com., College
B I D A R-589 401



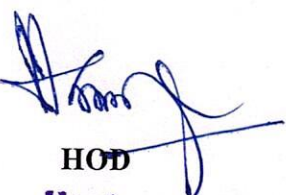


**DEEP LEARNING
COURSE DESCRIPTION**

Deep Learning is one of the most exciting and promising segments of Artificial Intelligence and machine learning technologies. This course with Tensor Flow is designed to help you master deep learning techniques and build using Tensor Flow, an open-source software library developed by Google for the purpose of conducting machine learning and deep neural networks. It is one of the most popular software platforms used for deep learning and contains powerful tools to help you build and implement artificial neural networks.

Advancements in deep learning are being seen in smart phone applications, creating efficiencies in the power grid, driving advancements in healthcare, improving agricultural yields, and help us find solutions to climate change. With this Tensor flow course, you'll build expertise in deep learning models, learn to operate Tensor Flow to manage neural networks and interpret the results.


Course In-charge


HOD
Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR


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Department Of PG Studies and Research in Computer Science

REGULATIONS

(2021-22 admitted batch)

Duration and Class Schedule

- This course is offered for 3rd and 1st semester.
- Duration: 4 Months (Friday and Saturday each week from 4:00PM to 5:00PM)
(2 Hours per Week).
- The classes are conducted at Department Of PG Studies and Research Center in Computer Science, Karnatak Arts, Science and commerce college, Bidar.
- Total Number of Theory and practical hours are 30.

Evaluation Procedure

- A written examination shall be conducted at the end of the certificate course for 60 Marks.
- A practical examination shall be conducted at the end of the certificate course for 20 Marks.
- Final Score shall for 80 Marks shall be calculated for the theory examination and for the practical examination.

spatil
Course in charge

[Signature]
HOD
Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR

[Signature]
Principal
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Department Of PG Studies and Research in Computer Science

Syllabus for Add-on Course

“Deep Learning”

UNIT1: Introduction to Tensor Flow: Computational Graph, Key highlights, Creating a Graph, Regression example, Gradient Descent, TensorBoard, Modularity, Sharing Variables, Keras Perceptions: What is a Perceptron, XOR Gate

UNIT 2: Introduction to Convolution Neural Networks: Introduction to CNNs, Kernel filter, Principles behind CNNs, Multiple Filters, CNN applications.

Introduction to Recurrent Neural Networks: Introduction to RNNs, Unfolded RNNs, Seq2Seq RNNs, LSTM, RNN applications.

UNIT 3: Deep learning applications: Image Processing, Natural Language Processing, Speech Recognition, Video Analytics.

Text Book

1. Goodfellow, I., Bengio, Y., and Courville, A., Deep Learning, MIT Press, 2016.

References

2. Yegnanarayana, B., Artificial Neural Networks PHI Learning Pvt. Ltd, 2009.
3. Golub, G., H., and Van Loan, C., F., Matrix Computations, JHU Press, 2013.
4. Satish Kumar, Neural Networks: A Classroom Approach, Tata McGraw-Hill Education, 2004.


Course In-charge

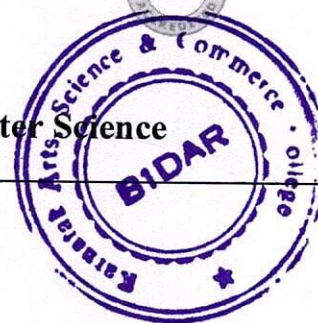

HOD
Head
Dept of Computer Science
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Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning

Preamble:

It is a part of Machine Learning used to solve complex problems and build intelligent solutions. The Core concept of Deep Learning has been derived from the structure and function of the human brain. Deep Learning uses artificial neural networks to analyze data and make predictions. It has found its application in almost every sector of business. In this course, we'll learn the top Deep Learning basics and its Applications.

Objectives:

By the end of the course, students will be able to

- Understand complexity of Deep Learning algorithms and their limitations.
- Understand modern notions in data analysis oriented computing.
- Be capable of confidently applying common Deep Learning algorithms in practice.
- And implementing their own; be capable of performing distributed computations.
- Be capable of performing experiments in Deep Learning using real-world data.

Instructional Design:

This course is of 30-hour duration which includes theory classes, Practical and Assignment etc.

Course Structure and Examination Scheme: Computer Science

Total contact hours:

Theory Classes and Assignment: 30Hours


Mode of Examination:


MCQ Exam	:	60 Marks
Assignment	:	20 Marks
Practical	:	20 Marks

Eligibility: Students enrolled in PG

No. of Seats: 35


Course In-charge


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Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR


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PIN IPAL
Karnatak Arts, Sci. & Com, College
BIDAR-588 401

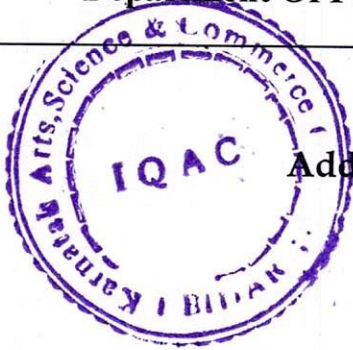


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Add-on Course on Deep Learning


Outcomes



By the end of this deep learning course with Tensor Flow, the student will be able to

1. Understand the concepts of Tensor Flow, its main functions, operations and the execution pipeline Implement deep learning algorithms, understand neural networks and traverse the layers of data abstraction which will empower the student to understand data more precisely.
2. Learn topics such as convolution neural networks, recurrent neural networks, training deep networks and high-level interfaces
3. Build deep learning models in Tensor Flow and interpret the results
4. Understand the language and fundamental concepts of artificial neural networks
5. Troubleshoot and improve deep learning models
6. Build own deep learning project
7. Differentiate between machine learning, deep learning and artificial intelligence


Course In-charge


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Head
Dept of Computer Science
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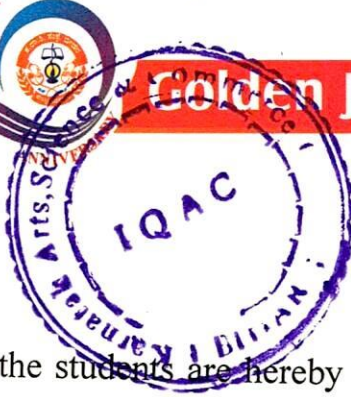
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ISO 9001 : 2015



Golden Jubilee Celebration - 1970-2020

Date: 18/01/2021

Notice

All the students are hereby informed that, the Department of M.Sc Computer Science is starting the add-on course on "Deep Learning" from the 4/02/2022 to 5/06/2022 interested student can enroll their names on or before 25/01/2022 in the Department of M.Sc Computer Science.

Spatil

Course In-charge

[Signature]

HOD

Head

Dept of Computer Science
Karnatak PG & UG College
BIDAR

[Signature]

Principal

PRINCIPAL

Karnatak Arts, Sci. & Com, College
B I D A R - 585 401

E-mail : principalkascc@gmail.com
Fax : 08482-226503

Hyderabad Road, Karnataka State - 585401.
Fax : 08482-226503

Cell : 9343834635
Visit us @ www.kascc.in.net



Save Environment Save Earth





KRE Society's

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ADMISSION FORM

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses
&
IAS/IPS/NET/SET Coaching Classes

Name of the Department MSc Computer Science Year 21-22

Name of the Student Sandhya Rani

Father's/Guardian's Name Shantappa

Date of Birth

Date

Month

Year

12

08

1999



Address for Correspondence :

H.No 12-3-173 Basavanagara
Bidar

Semester/Class :

1st year

Register No :

P2196295

Percentage of previous semester :

Contact No :

8951831211


E-Mail ID :

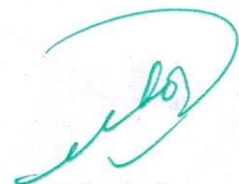
Sandhyametre99@gmail.com

Course to be Joined:

Deep Learning


Signature of the Student


HOD/Coordinator
Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR


Principal
PRINCIPAL
Karnatak Arts, Sci. & Com, College
B I D A R - 585 401

GULBARGA UNIVERSITY, KALABURAGI

II SEMESTER M.Sc. COMPUTER SCIENCE Oct / Nov 2021 Examination

Register : **P2196295**
number

Student Name : **SANDHYA RANI SHANTAPPA**

Father Name :

Mother Name :

RESULT SHEET

Sl. No.	Subject Name	Th. / Pr.	Max. Marks	Sec. Marks	Credit Hrs	Grade Points	Credit Points	Remarks
1	HCT-2.1 DATA STRUCTURES USING C++	Th.	100	78	4	7.80	31.20	A
2	HCT-2.2 RELATIONAL DATABASE MANAGEMENT SYSTEM	Th.	100	84	4	8.40	33.60	A+
3	SCT-2.1 DATA COMMUNICATIONS & NETWORKS	Th.	100	84	4	8.40	33.60	A+
4	OET-2.1 BASIC STATISTICS	Th.	100	80	6	8.00	48.00	A+
5	HCP-2.1 PRACTICAL-I: DATA STRUCTURES LAB	Th.	50	38	2	7.60	15.20	A
6	HCP-2.2 PRACTICALS-II: RDBMS LAB	Th.	50	40	2	8.00	16.00	A+
7	SCP-2.1 PRACTICALS-III(A) :NETWORKS LAB	Th.	50	44	2	8.80	17.60	A+
8	OEP-2.1 PRACTICAL- BASIC STATISTICS	Th.	50	44	2	8.80	17.60	A+

Passing Criteria : Min. to Pass : 40% in Theory, 40% in Practical, 40% in Subject

RESULT SUMMARY

S.G.P.A : 8.18

Result :Pass

Max. Marks : 600 Sec. Marks : 492

College : 2206 - KARNATAKA COLLEGE, BIDAR, BIDAR

Note : GUK is not responsible for any inadvertent error that may have crept in the results being published on NET. The results published on net are for immediate information to the examinees. These cannot be treated as original mark sheets.

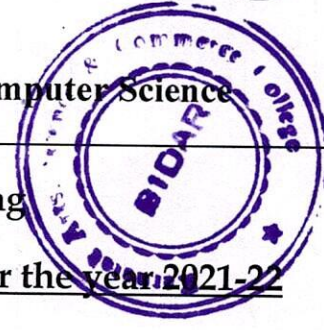
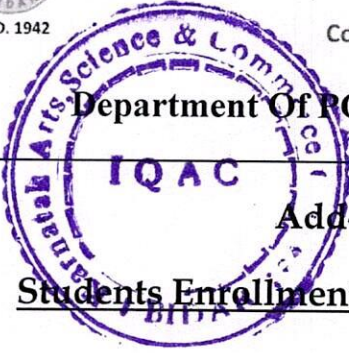
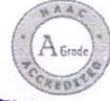


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Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning

Students Enrollment List of certificate course for the year 2021-22

Sl.No	Register No	Name of the Student	Signature
1	P2196290	Sushma Shivakumar	
2	P2196291	Nishat Fatima Abid Miyan	
3	P2196292	Pavankumar Nagshetty	
4	P2196293	Sunshine Simon Sagar	
5	P2196294	Karunesh Ravindrakumar	
6	P2196295	Sandhyarani Shanappa	
7	P2196296	Ambika Subash	
8	P2196297	Mallikarjun Vishwanath	
9	P04AE21S0001	Namrata	
10	P04AE21S0002	Karnakumari	
11	P04AE21S0003	Aishwarya	
12	P04AE21S0006	Roopa	
13	P04AE21S0020	Sudharani Kodge	
14	P04AE21S0021	Ambika Rajappa	
15	P04AE21S0022	Asha Ganapati	
16	P04AE21S0023	Sudharani Vajjinath	
17	P04AE21S0024	Anjali	
18	P04AE21S0025	Kavya	
19	P04AE21S0026	NeelGanga	
20	P04AE21S0059	Hamma Naveen Kumar	

Course In-charge

HOD
Dept of Computer Science
Karnatak PG & UG College
BIDAR

Principal
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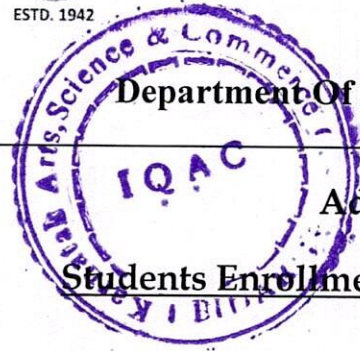
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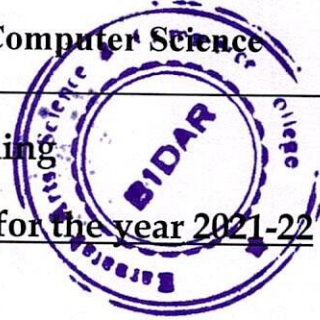
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Department Of PG Studies and Research in Computer Science




Add-on Course on Deep Learning



Students Enrollment List of certificate course for the year 2021-22

SL.NO	Register No	Name of the Student	Signature
21	P04AE21S0064	Anuradha	Anuradha
22	P04AE21S0073	Pradeep	Pradeep
23	P04AE21S0074	Neha	Neha
24	P04AE21S0075	Sushilkumar	Sushilkumar
25	P04AE21S0076	Ganesh	Ganesh
26	P04AE21S0077	Divyashree	Divyashree
27	P04AE21S0078	Dattatri	Dattatri
28	P04AE21S0079	Anil	Anil
29	P04AE21S0080	Nikhil	Nikhil
30	P04AE21S0081	Surekha	Surekha
31	P04AE21S0087	Mohd Abdul Basheer	Basheer
32	P04AE21S0089	Adeeba Nayreen	Adeeba Nayreen
33	P04AE21S0100	Chandrakant	Chandrakant
34	P04AE21S0101	Apoorva	Apoorva
35	P04AE21S0105	Mahima Shakaina	Mahima Shakaina


Course In-charge


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Notice

All the students, for certificate course "Deep Learning" are hereby informed to attend classes regularly from 4/02/2022. As per the time table displayed on the notices board.

Course In-charge

HOD

Head

Dept of Computer Science
Karnatak PG & UG College
BIDAR

Principal

PRINCIPAL

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B I D A R - 585 401

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Fax : 08482-226503

Hyderabad Road, Karnataka State - 585401.
Fax : 08482-226503

Cell : 9343834635
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Department Of PG Studies and Research Center in Computer Science


Add-on Course on Deep Learning

Time Table with effect from Feb-4/02/2022 to 5/06/2022

Days\Time	8.00am -10.0am (Practical)
Fri	RB
Sat	RB

Days\Time	4.00pm -5.00Pm (Theory)
Fri	SP/JP
Sat	SP/JP


Course In-charge


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Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning Attendance (2021-22)

SL.No	Name Of The Student	18/2/22	19/2/22	25/2/22	4/3/22	11/3/22	12/3/22	18/3/22	19/3/22	25/3/22	26/3/22
1	Sushma Shivakumar	P	A	P	P	P	P	A	P	P	P
2	Nishat Fatima Abid Miyan	P	P	P	A	P	P	P	P	P	P
3	Pavankumar Nagshetty	P	P	A	P	P	P	P	P	P	P
4	Sunshine Simon Sagar	P	A	P	P	P	A	P	P	P	P
5	Karunesh Ravindrakumar	P	P	P	A	P	P	P	A	P	A
6	Sandhyarani Shanappa	A	P	P	P	P	P	P	P	A	P
7	Ambika Subash	A	P	P	P	A	P	P	P	P	A
8	Mallikarjun Vishwanath	P	P	A	A	P	P	P	A	P	P
9	Namrata	P	P	P	P	P	A	P	P	P	P
10	Karnakumari	P	P	A	P	P	P	P	A	P	P
11	Aishwarya	A	P	P	P	A	P	P	P	A	P
12	Roopa	P	P	P	A	P	P	P	P	A	P
13	Sudharani Kodge	P	A	P	P	P	P	P	P	P	A
14	Ambika Rajappa	A	P	A	P	P	A	P	P	P	P
15	Asha Ganapati	A	A	P	P	P	P	A	P	P	P
16	Sudharani Vaijinath	P	P	P	A	P	P	P	A	P	A
17	Anjali	P	A	P	P	P	P	P	P	A	P
18	Kavya	A	A	P	P	P	P	A	P	P	P
19	NeelGanga	P	P	A	P	P	P	A	P	P	A
20	Hamma Naveen Kumar	P	P	P	P	A	P	P	A	P	P
21	Anuradha	A	P	A	P	P	P	P	P	P	P
22	Pradeep	P	P	P	P	A	P	P	A	P	A
23	Neha	P	P	P	P	P	P	P	P	P	P
24	Sushilkumar	A	A	A	P	A	A	P	A	A	P
25	Ganesh	A	A	A	P	P	A	A	A	P	A
Sign of Faculty											

Course In-charge

HOD
Head
Dept. of Computer Science
Karnatak PG & UG College
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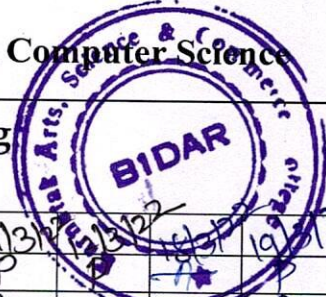
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Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning Attendance (2021-22)



SL.No	Name Of The Student	18/2/22	19/2/22	25/2/22	4/3/22	11/3/22	18/3/22	19/3/22	25/3/22	26/3/22
26	Divyashree	P	P	P	A	P	P	A	P	A
27	Dattatri	P	P	P	P	A	P	P	P	P
28	Anil	A	P	P	P	P	P	A	P	P
29	Nikhil	P	P	A	P	P	P	P	A	A
30	Surekha	P	P	P	P	P	P	P	P	A
31	Mohd Abdul Basheer	A	P	P	P	P	P	A	P	P
32	Adeeba Nayreen	A	A	P	P	A	A	P	A	A
33	Chandrakant	P	P	A	P	P	P	P	P	P
34	Apoorva	P	P	P	P	P	P	A	P	P
35	Mahima Shakaina	A	P	P	A	A	A	P	A	A
Sign of Faculty		<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>

[Signature]
Course In-charge

[Signature]
HOD
Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR

[Signature]
Principal
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Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning Attendance (2021-22)

SL.No	Name Of The Student	1/4/22	8/4/22	9/4/22	16/4/22	22/4/22	23/4/22	6/5/22	7/5/22	20/5/22	31/5/22
1	Sushma Shivakumar	P	A	P	P	A	P	A	P	P	A
2	Nishat Fatima Abid Miyan	P	P	P	A	P	P	P	P	A	P
3	Pavankumar Nagshetty	P	P	P	P	P	P	A	P	P	P
4	Sunshine Simon Sagar	P	P	A	P	A	P	P	A	P	P
	Karunesh Ravindrakumar	P	P	P	P	P	P	P	P	A	A
6	Sandhyarani Shanappa	A	P	P	P	P	P	P	P	P	P
7	Ambika Subash	P	A	P	A	A	A	A	A	P	A
8	Mallikarjun Vishwanath	P	P	A	P	P	P	P	P	P	P
9	Namrata	P	P	P	P	P	P	A	A	P	P
10	Karnakumari	A	A	P	A	P	P	P	P	P	P
11	Aishwarya	A	P	P	P	A	P	P	A	P	P
12	Roopa	P	P	A	P	P	P	P	P	A	P
13	Sudharani Kodge	P	P	P	P	A	P	A	P	P	A
14	Ambika Rajappa	A	P	P	P	P	P	P	P	P	A
15	Asha Ganapati	P	P	A	P	P	P	A	P	P	P
16	Sudharani Vaijinath	P	P	P	A	A	P	P	P	P	P
17	Anjali	P	P	P	A	P	A	P	A	A	P
18	Kavya	P	P	A	P	P	P	P	P	P	P
19	NeelGanga	P	A	P	A	P	P	P	A	A	P
20	Hamma Naveen Kumar	P	P	P	P	P	P	P	P	P	A
21	Anuradha	A	P	P	P	A	P	P	A	P	A
22	Pradeep	P	P	P	A	P	P	P	P	P	P
23	Neha	A	A	P	P	P	A	P	P	A	P
24	Sushilkumar	A	A	A	P	P	A	P	P	A	A
25	Ganesh	A	P	A	A	P	A	A	A	P	A
Sign of Faculty		<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>

[Signature]
Course In-charge

[Signature]
HOD
Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR

[Signature]
Principal
PHIN. IPAL
Karnatak Arts, Sci. & Com, College
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Department Of PG Studies and Research in Computer Science

**Add-on Course on Deep Learning
 Attendance (2021-22)**

SL.No	Name Of The Student	14/12	8/12	14/12	16/12	22/12	23/12	6/1/22	7/1/22	20/1/22	31/1/22
26	Divyashree	P	A	P	P	P	A	P	A	P	A
27	Dattatri	P	P	A	P	P	P	P	P	P	A
28	Anil	P	P	P	P	P	A	P	A	P	P
29	Nikhil	P	P	P	P	P	P	P	P	P	P
30	Surekha	A	P	A	A	P	P	P	P	P	P
31	Mohd Abdul Basheer	P	P	P	A	P	P	A	P	P	P
32	Adeeba Nayreen	A	A	A	P	A	P	A	A	A	P
33	Chandrakant	P	P	P	P	P	P	P	P	P	A
34	Apoorva	P	P	P	P	P	P	P	P	P	P
35	Mahima Shakaina	A	P	A	A	P	P	A	P	A	P
Sign of Faculty		<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>

[Signature]
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 Dept of Computer Science
 Karnatak PG & UG College
 BIDAR

[Signature]
 Principal
PRINCIPAL
 Karnatak Arts Sci. & Com. College
 B I D A R - 585 401

Roll No.

Year

Pavan Kumar
M.Sc C.S
Reg. No. P2196292

Page No.

Signature

Shree

Applications of Image processing

- 1) Image sharpening and restoration
- 2) Medical field
- 3) Remote sensing
- 4) Color processing
- 5) Pattern recognition.

1) Image sharpening and restoration :- It refers to process images that have been captured from the modern camera to make them a better image or to manipulate those images in way to achieve desired result. It refers to do what photoshop usually does.

This includes zooming, blurring, sharpening, grey scale to color conversion, detecting edges and vice versa, image retrieval and image recognition.

2) Medical field:

- a) Gamma ray imaging
- b) PET scan
- c) X Ray imaging
- d) Medical CT
- e) UV imaging

checked

3) Remote Sensing: The area of Earth is scanned by a satellite or from a very high ground and then it is analyzed to obtain information about it. One particular application of digital image processing in the field of remote sensing is to detect infrastructure damages caused by an earthquake.

As it takes longer time to grasp damage even if serious damages are focused on. Since the area affected by the earthquake is sometimes so wide, that it is not possible to examine it with human eye in order to estimate damages. Even if it is then it is very hectic and time consuming procedure so a solution to this is found in digital image processing. An image of the affected area is captured from the above and then it is analyzed to detect the various types of damage done by the earthquake.

4) Transmission and Encoding: The very first image that has been transmitted over the wire was from London to New York via a submarine cable. That today we are able to see live video feed or live CCTV footage from one continent to another with just a delay of seconds. It means that a lot of work has been done in this field too.

This field doesn't only focus on transmission but also on encoding. Many different formats have been developed for high or low bandwidth to encode photos and then stream it over the Internet or etc.

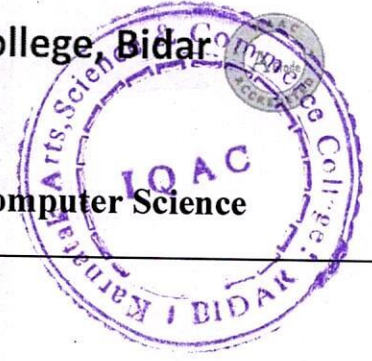
4) Colour processing: - color processing includes processing of colored images and different color spaces that are used. for example RGB color model, YCbCr, HSV. it also involves studying transmission, storage and encoding of these color images.

5) pattern Recognition: - this involves study from image processing and from various other fields that include machine learning (Branch of artificial intelligence) in pattern Recognition, image processing is used for identifying the objects in an image and then machine learning is used to train the system for the change in pattern. pattern Recognition is used in computer aided diagnosis, ~~Recognition of handwriting~~, recognition of ~~images~~ etc.



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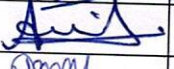

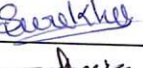

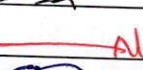


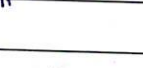


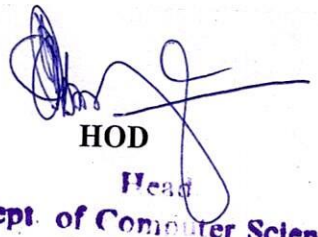
Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning

Assignment Marks list 2021-22

Sl.No	Register No	Name of the Student	Sign	Marks
1	P2196290	Sushma Shivakumar		16
2	P2196291	Nishat Fatima Abid Miyan		18
3	P2196292	Pavankumar Nagshetty		18
4	P2196293	Sunshine Simon Sagar		17
5	P2196294	Karunesh Ravindrakumar		17
6	P2196295	Sandhyarani Shanappa		16
7	P2196296	Ambika Subash		15
8	P2196297	Mallikarjun Vishwanath		19
9	P04AE21S0001	Namrata		18
10	P04AE21S0002	Karnakumari		17
11	P04AE21S0003	Aishwarya		15
12	P04AE21S0006	Roopa		18
13	P04AE21S0020	Sudharani Kodge		19
14	P04AE21S0021	Ambika Rajappa		15
15	P04AE21S0022	Asha Ganapati		18
16	P04AE21S0023	Sudharani Vaijinath		17
17	P04AE21S0024	Anjali		18
18	P04AE21S0025	Kavya		17
19	P04AE21S0026	NeelGanga		18
20	P04AE21S0059	Hamma Naveen Kumar		20
21	P04AE21S0064	Anuradha		16
22	P04AE21S0073	Pradeep		17
23	P04AE21S0074	Neha		20
24	P04AE21S0075	Sushilkumar	---	Not submitted
25	P04AE21S0076	Ganesh	---	Not submitted
26	P04AE21S0077	Divyashree		18

27	P04AE21S0078	Dattatri		19
28	P04AE21S0079	Anil		17
29	P04AE21S0080	Nikhil		18
30	P04AE21S0081	Surekha		19
31	P04AE21S0087	Mohd Abdul Basheer		16
32	P04AE21S0089	Adeeba Nayreen		16
33	P04AE21S0100	Chandrakant		17
34	P04AE21S0101	Apoorva		18
35	P04AE21S0105	Mahima Shakaina		15


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ಕರ್ನಾಟಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬಿದರ

KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR

Estd 1970

(Affiliated to Gulbarga University, Kalaburagi)

College with Potential for Excellence Status Awarded by UGC New Delhi

ISO 9001 : 2015




Golden Jubilee Celebration 1970-2020

Date: 1/06/2022

NOTICE

All the students enrolled in add-on course on Deep Learning are hereby informed that, the course examination is scheduled on 10-06-2022 at 11 am to 01.00pm.


Course In-charge


HOD
Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR


Principal
PRINCIPAL
Karnatak Arts, Sci. & Com, College
B I D A R - 585 401

E-mail : principalkascc@gmail.com
Fax : 08482-226503

Hyderabad Road, Karnataka State - 585401.
Fax : 08482-226503

Cell : 9343834635
Visit us @ www.kascc.in.net



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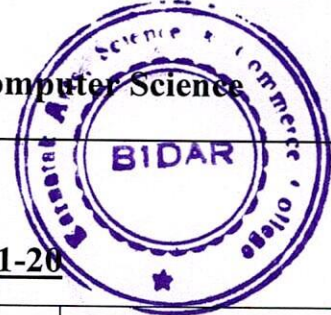
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Department Of PG Studies and Research in Computer Science



Add-on Course on Deep Learning

Final Examination attendance July -2021-20

Sl.No	Register No	Name of the Student	Signature
1	P2196290	Sushma Shivakumar	
2	P2196291	Nishat Fatima Abid Miyan	
3	P2196292	Pavankumar Nagshetty	
4	P2196293	Sunshine Simon Sagar	
5	P2196294	Karunesh Ravindrakumar	
6	P2196295	Sandhyarani Shanappa	
7	P2196296	Ambika Subash	
8	P2196297	Mallikarjun Vishwanath	
9	P04AE21S0001	Namrata	
10	P04AE21S0002	Karnakumari	
11	P04AE21S0003	Aishwarya	
12	P04AE21S0006	Roopa	
13	P04AE21S0020	Sudharani Kodge	
14	P04AE21S0021	Ambika Rajappa	
15	P04AE21S0022	Asha Ganapati	
16	P04AE21S0023	Sudharani Vajjinath	
17	P04AE21S0024	Anjali	
18	P04AE21S0025	Kavya	
19	P04AE21S0026	NeelGanga	
20	P04AE21S0059	Hamma Naveen Kumar	
21	P04AE21S0064	Anuradha	
22	P04AE21S0073	Pradeep	
23	P04AE21S0074	Neha	
24	P04AE21S0075	Sushilkumar	ABSENT
25	P04AE21S0076	Ganesh	ABSENT
26	P04AE21S0077	Divyashree	

27	P04AE21S0078	Dattatri	
28	P04AE21S0079	Anil	
29	P04AE21S0080	Nikhil	
30	P04AE21S0081	Surekha	
31	P04AE21S0087	Mohd Abdul Basheer	
32	P04AE21S0089	Adeeba Nayreen	ABSENT
33	P04AE21S0100	Chandrakant	
34	P04AE21S0101	Apoorva	
35	P04AE21S0105	Mahima Shakaina	ABSENT

Spalid
Invigilator

[Signature]
HOD
Head
Dept of Computer Science
Karnatak PG & UG College
BIDAR

[Signature]
Principal
PRINCIPAL
Karnatak Arts, Sci. & Com, College
B I D A R-585 401

[]

Sign of candidate

[]

sign of Invigilator



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Department Of PG Studies and Research in Computer Science



Add-on Course on Deep Learning

SUBJECT: Computer Science

Time: 11 AM TO 01 PM

Max. Marks: 60

INSTRUCTIONS TO THE CANDIDATE

1. The paper consist of 30 multiple choice question with 4 answers. Before starting to answer the question, verify whether you got correct test booklet and the test booklet contains 30 questions with answer.
2. Each question has four alternative answers A, B, C, D. the correct answer has to chosen only one and you have to tick (\checkmark) the answer.
3. The candidate shall use only Blue / black pen.
4. There is no negative making for the incorrect answer.
5. If a candidate wishes to leave examination during the middle of the examination, he will not be allowed to take the test booklet with him.
6. A candidate is forbidden from carrying a Mobile phone, calculator, I-Phone or any other electronic device into examination hall. In case accidently a candidate has brought any of such things, he shall hand it over the room supervisor before the commencement of the examination and collect it back after the completion of the examination.
7. **In case candidate is found to process any such devices, he will book under the Malpractice case.**



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Department of PG Studies and Research Center in Computer Science

Paper: Deep Learning

Date:

Time: 01 Hours
Max. Marks: 60

1. Which of the following is a subset of machine learning?
A. Numpy B. Scipy C. Deep learning D. All of the above
2. Which tool is best suited for solving Deep Learning problem?
A. R B. Sk-learn C. Excel Tensor D. Flow
3. A tensor is similar to
A. Data Array B. ANN Model C. SQL query D. Python code
4. Kears is a deep learning framework on which tool
A. R B. Tensor Flow C. SAS D. Azure
5. Which of the following neural networks has a memory?
A. 1D CNN B. 2D CNN C. LSTM D. None
6. Which of the following is an example of deep learning?
A. Self-driving cars B. Pattern recognition C. Natural language processing
D. All of the above
7. Auto encoder is an example of-
A. Deep learning B. Machine learning C. Data mining D. None
8. Which of the following steps can be taken to prevent over fitting in a neural network?
A. Dropout of neurons B. Early stopping C. Batch normalization D. All of the above
9. Neural networks can be used in-
A. Regression problems B. Classification problems C. Clustering problems D. All of the above.
10. In a classification problem, which of the following activation function is most widely used in the output layer of neural networks?
A. Sigmoid function B. Hyperbolic function C. Rectifier function D. All of the above
11. Which of the following is true about bias?
A. Bias is inherent in any predictive model B. Bias impacts the output of the neurons
C. Both A and B D. None
12. What is the purpose of a loss function?
A. Calculate the error value of the forward network
B. Optimize the error values according to the error rate C. Both A and D. None
13. Which of the following is a loss function?
A. Sigmoid function B. Cross entropy C. ReLu D. All of the above
14. Which of the following loss function is used in regression?
A. Logarithmic loss B. Cross entropy C. Mean squared error D. None
15. What is gradient descent?
Activation function B. Loss function C. Optimization algorithm D. None



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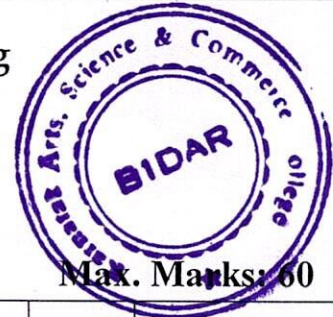
Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning

SUBJECT: Deep Learning

Name of the Candidate :

Class :



Max. Marks: 60

Q.N	Options	Q.N	Options	Q.N	Options
1	(a) (b) (c) (d)	11	(a) (b) (c) (d)	21	(a) (b) (c) (d)
2	(a) (b) (c) (d)	12	(a) (b) (c) (d)	22	(a) (b) (c) (d)
3	(a) (b) (c) (d)	13	(a) (b) (c) (d)	23	(a) (b) (c) (d)
4	(a) (b) (c) (d)	14	(a) (b) (c) (d)	24	(a) (b) (c) (d)
5	(a) (b) (c) (d)	15	(a) (b) (c) (d)	25	(a) (b) (c) (d)
6	(a) (b) (c) (d)	16	(a) (b) (c) (d)	26	(a) (b) (c) (d)
7	(a) (b) (c) (d)	17	(a) (b) (c) (d)	27	(a) (b) (c) (d)
8	(a) (b) (c) (d)	18	(a) (b) (c) (d)	28	(a) (b) (c) (d)
9	(a) (b) (c) (d)	19	(a) (b) (c) (d)	29	(a) (b) (c) (d)
10	(a) (b) (c) (d)	20	(a) (b) (c) (d)	30	(a) (b) (c) (d)

Sign of candidate

sign of Invigilator



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Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning

52
60

SUBJECT: Deep Learning

Name of the Candidate : DATTATRI

Class : MSC Ist Sem CS

Max. Marks: 60

Q.N	Options	Q.N	Options	Q.N	Options
1 -2	a b <input checked="" type="radio"/> c d	11 -2	a b <input checked="" type="radio"/> c d	21 -2	a b c <input checked="" type="radio"/> d
2 -2	a b <input checked="" type="radio"/> c d	12 -2	a b <input checked="" type="radio"/> c d	22 -2	a b <input checked="" type="radio"/> c d
3 -2	<input checked="" type="radio"/> a b c d	13	a b c <input checked="" type="radio"/> d	23 -2	a <input checked="" type="radio"/> b c d
4 -2	a <input checked="" type="radio"/> b c d	14 -2	a b <input checked="" type="radio"/> c d	24 -2	a b <input checked="" type="radio"/> c d
5 -2	a b <input checked="" type="radio"/> c d	15 -2	a b <input checked="" type="radio"/> c d	25	a b <input checked="" type="radio"/> c d
6 -2	a b c <input checked="" type="radio"/> d	16 -2	<input checked="" type="radio"/> a b c d	26 -2	<input checked="" type="radio"/> a b c d
7 -2	<input checked="" type="radio"/> a b c d	17 -2	a b <input checked="" type="radio"/> c d	27 -2	a <input checked="" type="radio"/> b c d
8 -2	a b c <input checked="" type="radio"/> d	18 -2	a b c <input checked="" type="radio"/> d	28	a b <input checked="" type="radio"/> c d
9 -2	<input checked="" type="radio"/> a b c d	19 -2	a b <input checked="" type="radio"/> c d	29 -2	<input checked="" type="radio"/> a b c d
10 -2	<input checked="" type="radio"/> a b c d	20 -2	<input checked="" type="radio"/> a b c d	30 -2	<input checked="" type="radio"/> a b c d

Dattatri

Sign of candidate

Spalid

sign of Invigilator



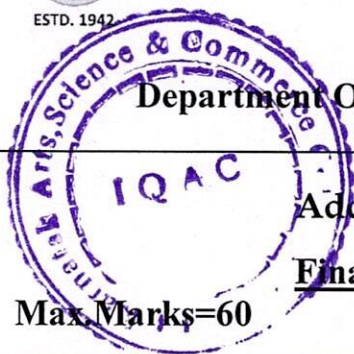
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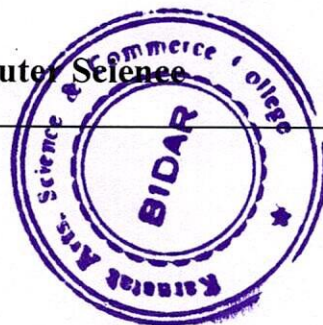


Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning

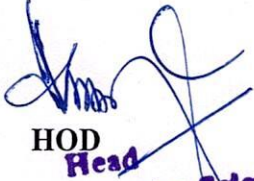
Final Examination Marks List 2021-22

Max Marks=60

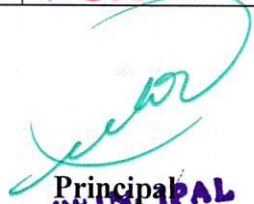


Sl.No	Register No	Name of the Student	Marks
1	P2196290	Sushma Shivakumar	56
2	P2196291	Nishat Fatima Abid Miyan	58
3	P2196292	Pavankumar Nagshetty	54
4	P2196293	Sunshine Simon Sagar	48
5	P2196294	Karunesh Ravindrakumar	50
6	P2196295	Sandhyarani Shanappa	52
7	P2196296	Ambika Subash	48
8	P2196297	Mallikarjun Vishwanath	54
9	P04AE21S0001	Namrata	50
10	P04AE21S0002	Karnakumari	50
11	P04AE21S0003	Aishwarya	48
12	P04AE21S0006	Roopa	54
13	P04AE21S0020	Sudharani Kodge	52
14	P04AE21S0021	Ambika Rajappa	50
15	P04AE21S0022	Asha Ganapati	44
16	P04AE21S0023	Sudharani Vaijinath	52
17	P04AE21S0024	Anjali	50
18	P04AE21S0025	Kavya	52
19	P04AE21S0026	NeelGanga	56
20	P04AE21S0059	Hamma Naveen Kumar	54
21	P04AE21S0064	Anuradha	54
22	P04AE21S0073	Pradeep	52
23	P04AE21S0074	Neha	52
24	P04AE21S0075	Sushilkumar	ABSENT
25	P04AE21S0076	Ganesh	ABSENT
26	P04AE21S0077	Divyashree	48

27	P04AE21S0078	Dattatri	
28	P04AE21S0079	Anil	
29	P04AE21S0080	Nikhil	
30	P04AE21S0081	Surekha	
31	P04AE21S0087	Mohd Abdul Basheer	50
32	P04AE21S0089	Adeeba Nayreen	ABSENT
33	P04AE21S0100	Chandrakant	54
34	P04AE21S0101	Apoorva	46
35	P04AE21S0105	Mahima Shakaina	ABSENT



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Head
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Karnatak PG & UG College
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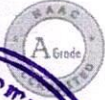
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Department Of PG Studies and Research in Computer Science

Add-on Course on Deep Learning

Practical Examination attendance June -2021-20

Sl.No	Register No	Name of the Student	Signature
1	P2196290	Sushma Shivakumar	
2	P2196291	Nishat Fatima Abid Miyan	
3	P2196292	Pavankumar Nagshetty	
4	P2196293	Sunshine Simon Sagar	
5	P2196294	Karunesh Ravindrakumar	
6	P2196295	Sandhyarani Shanappa	
7	P2196296	Ambika Subash	
8	P2196297	Mallikarjun Vishwanath	
9	P04AE21S0001	Namrata	
10	P04AE21S0002	Karnakumari	
11	P04AE21S0003	Aishwarya	
12	P04AE21S0006	Roopa	
13	P04AE21S0020	Sudharani Kodge	
14	P04AE21S0021	Ambika Rajappa	
15	P04AE21S0022	Asha Ganapati	
16	P04AE21S0023	Sudharani Vajjinath	
17	P04AE21S0024	Anjali	
18	P04AE21S0025	Kavya	
19	P04AE21S0026	NeelGanga	
20	P04AE21S0059	Hamma Naveen Kumar	
21	P04AE21S0064	Anuradha	
22	P04AE21S0073	Pradeep	
23	P04AE21S0074	Neha	
24	P04AE21S0075	Sushilkumar	— ABSENT —
25	P04AE21S0076	Ganesh	— ABSENT —
26	P04AE21S0077	Divyashree	

27	P04AE21S0078	Dattatri	<i>Dattatri</i>
28	P04AE21S0079	Anil	<i>Anil</i>
29	P04AE21S0080	Nikhil	<i>Nikhil</i>
30	P04AE21S0081	Surekha	<i>Surekha</i>
31	P04AE21S0087	Mohd Abdul Basheer	<i>Mohd Abdul Basheer</i>
32	P04AE21S0089	Adeeba Nayreen	ABSENT
33	P04AE21S0100	Chandrakant	<i>Chandrakant</i>
34	P04AE21S0101	Apoorva	<i>Apoorva</i>
35	P04AE21S0105	Mahima Shakaina	ABSENT

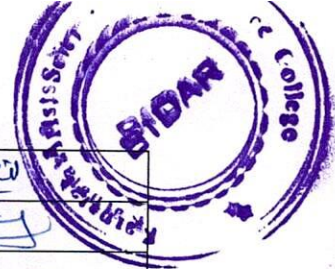
Mahima Shakaina
Invigilator

Anil
HOD
Head

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[Signature]
Principal

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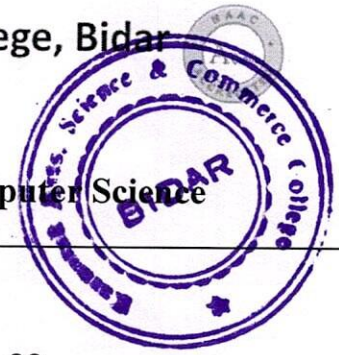
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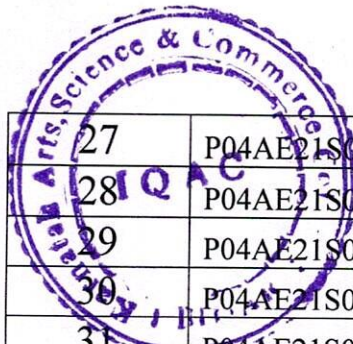


Add-on Course on Deep Learning

Practical Examination Marks List 2021-22

Max.Marks=20

Sl.No	Register No	Name of the Student	Marks
1	P2196290	Sushma Shivakumar	17
2	P2196291	Nishat Fatima Abid Miyan	18
3	P2196292	Pavankumar Nagshetty	19
4	P2196293	Sunshine Simon Sagar	15
5	P2196294	Karunesh Ravindrakumar	14
6	P2196295	Sandhyarani Shanappa	16
7	P2196296	Ambika Subash	13
8	P2196297	Mallikarjun Vishwanath	17
9	P04AE21S0001	Namrata	19
10	P04AE21S0002	Karnakumari	12
11	P04AE21S0003	Aishwarya	14
12	P04AE21S0006	Roopa	18
13	P04AE21S0020	Sudharani Kodge	19
14	P04AE21S0021	Ambika Rajappa	15
15	P04AE21S0022	Asha Ganapati	14
16	P04AE21S0023	Sudharani Vaijinath	15
17	P04AE21S0024	Anjali	16
18	P04AE21S0025	Kavya	17
19	P04AE21S0026	NeelGanga	15
20	P04AE21S0059	Hamma Naveen Kumar	18
21	P04AE21S0064	Anuradha	12
22	P04AE21S0073	Pradeep	17
23	P04AE21S0074	Neha	18
24	P04AE21S0075	Sushilkumar	ABSENT
25	P04AE21S0076	Ganesh	ABSENT
26	P04AE21S0077	Divyashree	16



27	P04AE21S0078	Dattatri	18
28	P04AE21S0079	Anil	15
29	P04AE21S0080	Nikhil	17
30	P04AE21S0081	Surekha	19
31	P04AE21S0087	Mohd Abdul Basheer	16
32	P04AE21S0089	Adeeba Nayreen	ABSENT
33	P04AE21S0100	Chandrakant	16
34	P04AE21S0101	Apoorva	15
35	P04AE21S0105	Mahima Shakaina	ABSENT

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Department Of PG Studies and Research in Computer Science


Report on Add-on Course on Deep Learning

The Department of PG Studies and Research in Computer Science conducted add-on course on Deep Learning for the students of M Sc. Computer Science from 04/02/2022 to 5/06/2022. The course was about the core concept of Deep Learning which were derived from the structure and function of the human brain. Students learned about tensor flow, various operations of tensor flow, Convolution Neural Networks and Their various architectures and models. Finally, they learn to apply the deep learning techniques in various applications of image analysis, data analysis and audio processing.

The total 35 students were enrolled in this course and they got fundamental knowledge of about deep learning and its applications. Students also applied these techniques on various basic problems to them during laboratory practices. Concourse concluded with final examination and certificate distributions.


Course In-charge


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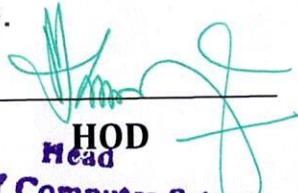

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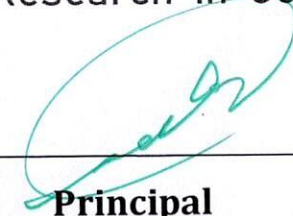
KRE Society's
Karnatak Arts, Science and Commerce College, Bidar (KS)
Department of PG Studies and Research in Computer Science

CERTIFICATE

This is to certify that Mr./Miss. Pavan Kumar of M Sc. I/III Sem has successfully completed add-on course on "Deep Learning" during the year 2021-22 offered by Department of PG Studies and Research in Computer Science.


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