K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science

Add-on Course on Bio-Metric
2021-22

Course Co-ordinator

Sri. Shrikant Doddamani

Assistant Professor in Computer Science

To,

the Principal

Karnatak Arts, Science and Commerce College, Bidar

Sub: Request to grant permission to start add-on course on **Bio-Metric** for the academic year 2021-22

Respected Sir,

As per the guidelines issued by IQAC, we would like to start the add-on course on "Bio-Metric" from the academic year 2021-22. With intake 50 students. Please permit us to start the add-on course and do the needful.

Thanking You.

HOD

SRIKANTH DODDAMANI
Head & Associate Professor
Department of Computer Science
Karnatak. Arts, Science and
Commerce College BIDAR

Karnatak Arts, Science and Commerce College, Bidar

Department of Computer Science

Meeting Minutes for Institutional Board of students for Add-on Course on Bio-Metric held on

The institutional Board of Studies of the Department of Computer science for the add-on course on Bio-Metric held on 27/06/2022 at 1:00pm

Sl. No	Name	Institute	Designation
1	Sri. Shrikant. D	Head of the Department Computer Science, KASCC, Bidar	Course Co-ordinator
2	Smt. K. Janaki	Assistant Professor, Department of Computer Science, KASCC, Bidar	Member
3	Sri. Jagdish. B	Assistant Professor, Department of Computer Science, KASCC, Bidar	Member
4	Dr. Patil Pandit	Assistant Professor, Department of Computer Science, Govt. Degree College Noubad, Bidar	External Expert

In the beginning of the meeting the Chair Person of the BOS Sri. Shrikant Doddamani welcomed all members and briefed them about the academic activities of the Department of Computer Science . The members expressed their highly appreciation and satisfaction about the courses and activities of the department.

After that institutional BOS discussed and resolved the following items:

Item 1. Starting of the add-on course on Bio-Metric.

The BOS discussed the item and resolved to start the add-on course on Bio-Metric.

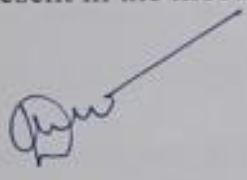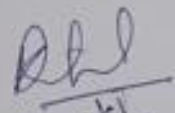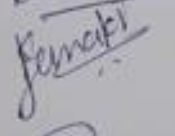## Item 2. Approval of the Syllabus for add-on course.
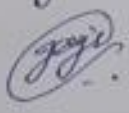
The BOS discussed and approved the syllabus for the add-on course on Bio-Metric.

Item 3. Approval of admission criteria

The BOS discussed and approve the criteria for admission and resolved that any students enrolled in UG course in KASCC can enrol in this course. In addition to this BOS also finalized the exam pattern.

Meeting of the BOS was concluded with the vote of thanks by Smt. Janaki.K, Assistant Professor in Department of Computer Science.

The following members were present in the meeting:

- Sri. Shrikant Doddamani
- Dr. Patil Pandit
- Smt. K. Janaki
- Sri. Jagadish. B

Principal

PRINCIPAL
Karnatak Arts, Sci. & Com. College
BIDAR-585401

Preamble: Bio-metrics refers to the automatic identification of a person based on his/her physiological or behavioral characteristics. With the increased integration of computers and Internet into our everyday lives, to protect sensitive and personal data becomes more important and challenging. This course focuses on the design of various biometric systems based on fingerprints, voice, face, hand geometry, palm print, iris, retina, and other modalities. Multi-modal biometric systems that use two or more of the above characteristics are studied. This course also examines biometric system performance and the issues related to the security and privacy aspects of these systems.

Objectives:
1. Develop authentication mechanisms that use the components of physiological and behavioral biometric systems.
2. Analyse the structure of bio-metrics-based authentication systems.
3. Develop expertise in formulation and development of bio-metrics systems for specific applications.
4. Evaluateandintegratebiometricsystemsinvarioussystemwideapplications as needed.
5. Analyse and understand the components of different forms of bio-metrics, such as fingerprint, face, gait, keystroke, and so on.

Instructional Design:
This course is of 40-hour duration which includes theory classes and assignments etc.

Course Structure and Examination Scheme:

Total contact hours:

Theory Classes:	30 Hours
Assignment:	10 Hours
Total	40 Hours

Mode of Examination:

MCQ Exam:	60 Marks
Assignments:	40 Marks

Eligibility: Students enrolled in UG.
No. of Seats: 50

K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on Course on Web Development Technology

Syllabus

Course Outline (Tentative)

I. Introduction
   - Biometrics Introduction
   - Performance Evaluation
     - Error Rates
     - ROC, DET, CMC Curves

II. Fundamental Concepts
   - Fingerprint Recognition
   - Face Recognition
   - Iris Recognition

III. Selected Biometrics Topics
   - Additional Biometrics Traits (ear, gait, hand)
   - Multi-Biometrics
   - Security of Biometrics Systems

Reference books:-

   - A.K. Jain, P. Flynn, A.A. Ross, Handbook of Biometrics, Springer, 2008.
   - H. Wechsler, Reliable Face Recognition Methods: System Design, Implementation and Evaluation, Springer, 2007.
   - A.Ross, K. Nandakumar; A.K. Jain. Handbook of Multibiometrics. Springer, 2006

Web Links:-

1) https://www.acs.uwinnipeg.ca/scamorlinga/teaching/W2014_7201/syllabus/index.htm
2) https://sites.google.com/a/di.uniroma1.it/biometric-systems/home-page/mandatorycontents

Date: 27/06/2022

NOTICE

All the students are hereby informed that, the Department of Computer Science is starting the add-on course on **"Bio-Metric"** from the 01/07/2022 to 01/09/2022. interested students can enrol their names on or before 30/06/2021 in the Department of Computer Science.

HOD
Department of Computer Science

SRIKANTH DODDAMANI
Head & Associate Professor
Department of Computer Science
Karnatak. Arts, Science and
Commerce College BIDAR

Principal

PRINCIPAL
Karnatak Arts, Sci. & Com. College
BIDAR-585401

K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on Course on Bio-Metric
Admission List (2021-2022)

Sl.No	Reg.No.	Name of the Student	
1	2043040	Satish	Satish
2	2043041	Rohit Madiwal	Rohit
3	2043044	Nikita	Nikita
4	2043045	Raghunath Reddy	Raghunath
5	2043046	Mahesh	Mahesh
6	2043047	Rahul Baburao	Rahul
7	2043048	Shruthi	Shruthi
8	2043050	Shulamite	Shulamite
9	2043051	Mouneshwari	Mouneshwari
10	2043052	Vaishnavi	Vaish
11	2043054	Jency Janet	Jenet
12	2043056	Anmol vardha	Anmol
13	2043058	Arati Biradar	Aarti
14	2043062	Shraddha	Shraddha
15	2043063	Biradar Siddharedy	
16	2043064	Nandraj	Nandraj
17	2043068	Ashwini Joshi	Joli
18	2043070	Arjun	Ariel
19	2043074	Supreeta	Supreeta
20	2043075	Rohini	Roini
21	2043076	Sahana	Sahana
22	2043078	Chandrashekhar	Ch.
23	2043079	Ashwini patil	A.patil
24	2043080	Mahadev Swamy	
25	2043081	pallavi. B	Pallavi
26	2043082	Ayesha Begum	Ayesh
27	2043084	Basavaraj	Basava

28	2043090	Kasturi	Kasturi
29	2043092	Srinath	Srinath
30	2043093	Dinesh	
31	2043094	Ramesh Telang	
32	2043095	Baburao patil	B patil
33	2043098	Megha	Megha
34	2043105	Janaki	Jantwik
35	2043107	Sangamesh	Boyakale
36	2043110	Srikanth	
37	2043111	Priyanka	Priyanka
38	2043112	Neha	Neha
39	2043116	MD. Ajaroddin	
40	2043117	Mallari	Mallari
41	2043130	Stephen	Stephen
42	2043135	Shrinivas	
43	2043137	Vinayak	Vinayak
44	2043138	Adarsh	Adarsh
45	2043139	Ambika	Ambika
46	2043142	Abhishek	Abhishek
47	2043149	Sagar Swamy	Sagar
48	2043152	Rohan	
49	2043154	Abhijeet	
50	2043155	Anjali	Anjali

K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on Course on Bio-Metric
Time-Table (2021-2022)

Date:01/07/2022

Days	Theory (1:30pm to 3:00pm)
Friday	Jagadish B
Saturday	Janaki K

Date: 02/07/2022

Days	Practical (11:00am to 12:00pm)
Friday	Jagadish B
Saturday	Janaki K

K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on Course on Bio-Metric
Attendance (2021-2022)

Sl.no	Name of the student	1/7	2/7	8/7	9/7	15/7	16/7	22/7	23/7	29/7	30/7
						5	5	6	7	8	8
1	Satish	1	2	3	4	5	5	6	6	7	8
2	Rohit Madival	1	2	3	3	4	5	6	6	7	8
3	Nikita	1	2	3	4	5	6	6	7	8	9
4	Rughunath Reddy	1	2	3	4	5	6	7	7	8	9
5	Mahesh	1	2	3	4	5	6	7	7	7	8
6	Rahul Baburao	1	2	3	4	5	6	7	8	8	9
7	Suruthi	1	2	3	4	4	5	6	7	8	9
8	Shulamite	1	2	3	4	5	6	7	8	9	10
9	Mouneshwari	1	2	3	4	5	5	6	7	8	9
10	Vaishnavi	1	2	3	4	5	6	7	8	9	10
11	Jency Janet	1	2	3	4	5	6	7	8	9	10
12	Anmol Vardha	1	2	3	4	5	6	7	8	8	9
13	Aarti. B	1	1	2	3	4	5	6	7	7	8
14	Shradha	1	2	3	4	5	6	7	8	8	9
15	Biradar Siddhanvedy	1	2	3	4	5	6	7	8	9	10
16	Nandraj	1	2	3	4	5	6	6	7	8	9
17	Aswini Joshi	1	2	3	4	5	6	7	8	9	9
18	Arjun	1	2	3	3	4	5	6	7	8	9
19	Supreeta	1	2	3	4	5	6	7	8	9	10
20	Rohini	1	2	3	4	5	6	7	7	8	9
21	Sahana	1	2	3	4	5	6	7	8	9	10
22	Chandrashekar	1	2	3	4	5	5	6	7	8	9
23	Aswini patil	1	2	3	4	5	6	7	8	9	9
24	Mahadev Swamy	1	2	3	4	5	6	6	7	8	9
25	pallavi. B	1	1	2	3	4	5	6	7	8	9
Sign of Faculty		*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*	*(sign)*

HOD

SRIKANTH DODDAMANI
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Commerce College BIDAR

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K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
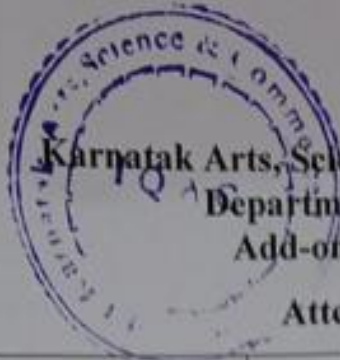### Add-on Course on Bio-Metric
Attendance (2021-2022)

Sl.no	Name of the student	1/7	2/7	8/7	9/7	15/7	16/7	22/7	23/7	29/7	30/7
1	Ayesha Begum	1	2	2	3	4	5	6	7	8	9
2	Basavaraj	1	2	3	4	5	6	7	8	8	9
3	Kasturi	1	2	3	4	5	6	7	7	8	9
4	Srinath	1	2	3	4	5	6	7	8	9	10
5	Dinesh	1	2	3	4	5	6	7	8	9	
6	Ramesh Telang	1	2	3	4	4	5	6	7	8	9
7	Balanao patil	1	2	3	4	5	6	7	8	9	9
8	Megha	1	2	3	4	5	6	7	7	8	9
9	Anki	1	2	3	4	5	6	7	8	9	10
10	Sangamesh	1	1	2	3	4	5	6	7	8	9
11	Srikanth	1	2	3	4	5	6	7	8	8	9
12	Priyanka	1	2	3	4	5	6	7	8	9	10
13	Neha	1	2	3	4	5	6	7	8	9	9
14	Md Ajaroddin		2	2	3	4	5	6	7	8	9
15	Mallari	1	2	3	4	5	6	7	8	9	10
16	stephen	1	2	3	4	5	6	7	8	9	10
17	Shrinivas	1	2	3	4	4	5	6	7	8	9
18	Vinayak	1	2	3	4	5	6	7	8	8	9
19	Adarsh	1	2	3	4	5	6	6	7	8	9
20	Ambika	1	2	3	4	5	6	7	8	8	9
21	Abhishek	1	1	2	3	4	5	6	7	8	9
22	Sagan Swamy	1	2	3	4	5	6	7	8	9	10
23	Rohan	1	2	3	4	5	6	7	7	8	9
24	Abhijeet	1	2	3	4	5	6	7	7	8	9
25	Anjali	1	2	3	4	5	5	6	7	8	9
Sign of Faculty		*Kamati*	*(sign)*	*Kamati*	*(sign)*	*Kamati*	*Kamati*	*Kamati*	*(sign)*	*Kamati*	*(sign)*

HOD

SRIKANTH DODDAMANI
Head & Associate Professor
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BIDAR-585401

K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on Course on Bio-Metric
Attendance (2021-2022)

Sl.no	Name of the student	5/8	6/8	12/8	13/8	19/8	20/8	24/8	27/8
1	Satish	9	10	11	11	12	13	14	15
2	Rohit Madival	9	10	10	11	12	13	15	16
3	Nikitta	10	11	11	12	13	14	15	16
4	Raghunath Reddy	9	10	11	12	13	14	15	16
5	mahesh	9	10	11	12	14	15	16	17
6	Rahul Baburao	10	11	12	13	14	15	16	17
7	Suruthi	10	11	12	13	14	15	15	16
8	Shulamite	10	11	12	12	13	15	16	17
9	Mouneshwari	10	11	12	13	14	15	16	17
10	Vaishnavi	10	11	12	13	14	15	16	17
11	Jency Janet	11	12	13	13	14	15	16	16
12	Anmol Vandha	10	11	12	13	14	15	15	16
13	Arati. B	9	10	11	12	13	14	15	16
14	Shraddha	10	11	12	13	13	14	15	16
15	Biradar Siddhareddy	11	12	12	13	14	15	16	17
16	Nandraj	10	11	12	12	13	14	15	16
17	Aswini Joshi	10	11	12	13	14	15	16	17
18	Arjun	10	11	12	13	14	15	16	17
19	Supreeta	11	12	12	13	14	15	16	17
20	Rohini	10	11	12	13	14	15	16	17
21	Sahana	11	12	13	14	15	16	17	18
22	Chadrashekar	10	11	11	12	13	14	15	16
23	Aswini patil	10	11	12	13	14	15	16	17
24	Mahedev Swamy	10	11	12	13	14	15	16	17
25	pallavi. B	10	11	12	13	14	15	16	17
Sign of Faculty									

HOD

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K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on Course on Bio-Metric

Attendance (2021-2022)

Sl.no	Name of the student	5/8	6/8	12/8	13/8	19/8	20/8	26/8	27/8		
1	Ayesha Begum	10	11	12	13	14	15	15	16		
2	Basavaraj	10	10	11	12	13	14	15	16		
3	Kasturi	10	11	12	13	14	15	16	17		
4	Srinadh	10	11	12	13	14	14	15	16		
5	Dinesh	11	11	12	12	13	14	15	16		
6	Ramesh Telang	10	11	12	13	14	15	16	17		
7	Babunao Patil	10	11	12	13	13	14	15	15		
8	Megha	10	11	12	13	14	15	16	17		
9	Janki	11	12	13	14	15	16	17	18		
10	Sangamesh	10	11	12	13	14	15	16	17		
11	Srikanth	10	10	11	12	13	14	15	15		
12	Priyanka	11	12	13	14	15	16	17	18		
13	Neha	10	11	12	13	14	15	16	17		
14	Md. Ajamoddin	10	11	12	13	14	15	16	17		
15	Mallam	11	11	12	13	14	15	16	17		
16	Stephen	10	11	12	13	13	14	15	16		
17	Shrinivas	10	11	12	13	14	15	15	16		
18	Vinayak	10	11	12	13	14	15	16	17		
19	Adarsh	10	11	12	13	14	15	16	17		
20	Ambika	10	11	12	12	13	14	15	16		
21	Abhishek	10	11	12	13	14	15	16	16		
22	Sagan Swamy	10	11	12	13	14	15	16	17		
23	Rohan	10	11	12	13	14	15	16	17		
24	Abhijeet	10	11	12	13	13	14	15	16		
25	Anjali	10	11	12	13	14	15	16	17		
Sign of Faculty		Janaki		Janaki		Janaki		Janaki			

HOD
SRIKANTH DODDAMANI
Head & Associate Professor
Department of Computer Science
Karnatak. Arts, Science and

Principal
PRINCIPAL
Karnatak Arts, Sci. & Com. College

Date: 30/08/2022

NOTICE

All the students enrolled in add-on course on **Bio-Metric** are hereby informed that, the course examination date is scheduled on 02/09/2022. Duration of examination is **1hr.**

HOD

SRIKANTH DODDAMANI
Head & Associate Professor
Department of Computer Science
Karnatak. Arts, Science and
Commerce College BIDAR

Principal
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Karnatak Arts, Sci. & Com. College
BIDAR-585401

K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on course on Bio-Metric

Exam Attendance List(2022-22)

Sl.No	Reg.No	Name of the Student	Signature
1	B2043040	Satish	
2	B2043041	Rohit madiwal	
3	B2043044	Nikita	
4	B2043045	Raghunath Reddy	
5	B2043046	Mahesh	
6	B2043047	Rahul Biradar	
7	B2043048	Suruthi	
8	B2043050	Shulamit	
9	B2043051	Mouneshwari	
10	B2043052	Vaishnavi Gaddam	
11	B2043054	Jency Lanet	
12	B2043056	ANMOL.VARDHA	
13	B2043058	Arati. Shivaji Rao	
14	B2043062	Shraddha	
15	B2043063	B. Siddhareddy	
16	B2043064	Nandraj. Ramrao	
17	B2043068	Ashwini Joshi	
18	B2043070	Arjun	
19	B2043074	Supreeta	
20	B2043075	Rohini	
21	B2043076	Sahana	
22	B2043078	Chandrashekhar	
23	B2043079	Ashwini	
24	B2043080	Mahadev Swamy.	
25	B2043081	B. Pallavi	
26	B2043082	Ayesha Begum	
27	B2043084	Basavaraj	
28	B2043090	Kartik	

No.	Reg. No.	Name	Signature
29	B043092	Srinath	
30	2043093	Dinesh	Deodar
31	B2043094	Ramesh Tolany	
32	B2043095	Baburao Patil	Patil
33	B2043098	Megha	megha
34	B2043105	Janaki	Janki
35	B2043107	SANGAMESH. D	SANGAMESH
36	B2043110	Srikanth	
37	B2043111	Priyanka	Priyanka
38	B2043112	Neha	Neh.
39	B2043116	Ajaroddin	
40	B2043117	Mallari	mallari
41	B2043130	Stephan	
42	B2043135	Shrinivas	Shriniva
43	B2043137	Vinayak	
44	B2043138	Adarsh	A
45	B2043139	Ambika	Ambika
46	B2043142	ABHISHEK	
47	B2043149	Sagar	
48	B2043152	Rohan	
49	B2043154	ABHIJEET	
50	B2043155	Anjali	Anjali

HOD

SRIKANTH DODDAMANI
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Karnatak. Arts, Science and
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Principal

PRINCIPAL
Karnatak Arts, Sci. & Com. College
BIDAR-585401

K.R.E Society's

Karnatak Arts Science and Commerce College, Bidar

Department of Computer Science

Add-on course on Bio-Metric

Marks List(2021-22)

Sl.No	Reg.No	Name of the Student	Marks	Marks in Words
1	2043040	Satish	56	Fifty Six
2	2043041	Rohit Madival	60	Sixty
3	2043044	Nikitha	52	Fifty two
4	2043045	Raghunath Reddy	50	Fifty
5	2043046	mahesh	54	Fifty taur
6	2043047	Rahul	58	Fifty eight
7	2043048	Suruthi	54	Fifty four
8	2043050	shulamite	56	Fifty six
9	2043051	Mouneshwari	60	Sixty
10	2043052	vaishnavi	58	Fifty eight
11	2043054	Jency lanet	56	Fifty six
12	2043056	Anmol vandha	56	Fifty six
13	2043058	Arati	56	Fifty six
14	2043062	Shraddha	54	Fifty four
15	2043063	Birador Siddhareddy	56	Fifty six
16	2043064	Nandraj	60	Sixty
17	2043068	Ashwini Joshi	60	Sixty
18	2043070	Arjun	46	Forty six
19	2043074	Supreeta	54	Fifty four
20	2043075	Rohini	54	Fifty four
21	2043076	Sahana	56	Fifty six
22	2043078	Chandrashekar	52	Fifty two
23	2043079	Aswini patil	50	Fifty
24	2043080	Mahadev	46	Forty six
25	2043081	pallavi.B	58	Fifty eight
26	2043082	Ayesha Begum	56	Fifty six
27	2043084	Basavaraj	60	Sixty
28	2043090	Kasturi	50	Fifty

29	2043092	Srinath	56	Fifty six
30	2043093	Dinesh	42	Fourty
31	2043094	Ramesh Telang	54	Fifty four
32	2043095	Baburao	56	Fifty six
33	2043098	Megha	50	Fifty
34	2043105	Janaki	54	Fifty four
35	2043107	Sangamesh. D	60	Sixty
36	2043110	Srikanth	50	Fifty
37	2043111	priyanka	50	Fifty
38	2043112	Neha	50	Fifty
39	2043116	MD. Ajaroddin	50	Fifty
40	2043117	mallari	56	Fifty six
41	2043130	Stephen	50	Fifty
42	2043135	Srinivas	56	Fifty six
43	2043137	Vinayak	30	Thirty
44	2043138	Adarsh	54	Fifty four
45	2043139	Ambika	48	Forty eight
46	2043142	Abhishek	54	Fifty four
47	2043149	Sagar Swamy	56	Fifty six
48	2043152	Rohan	52	Fifty two
49	2043154	Abhijeet	56	Fifty six
50	2043155	Anjali	56	Fifty six

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K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Report on Add-on course on Bio-Metric (2021-22)

Add-on course on "Bio-Metric" was successfully completed by 50 students. All the students got the basic knowledge about Bio-Metric. Bio-metrics is **the measurement and statistical analysis of people's unique physical and behavioral characteristics**. The technology is mainly used for identification and access control or for identifying individuals who are under surveillance.

After Completion of this add-on course He/she is able to become a developer.

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K.R.E. SOCIETY'S

KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR

(ESTD 1970, AFFILIATED TO GULBARGA UNIVERSITY, KALABURAGI)

COLLEGE WITH POTENTIAL FOR EXCELLENCE STATUS AWARDED BY UGC, NEW DELHI

NAAC RE ACCREDITED AT "A" GRADE (3.24 CGPA)

CERTIFICATE

THIS CERTIFICATE IS PRESENTED TO _____ FOR COMPLETION OF

CERTIFICATE COURSE ON "BIO-METRIC "ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE.

FROM _____ TO _____.

HOD

PRINCIPAL

UKANTH UODDAMANI
ead & Associate Professor
partment of Computer Science
arnatak Arts Science and
ommerce College BIDAR

ADMISSION FORM

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses

&

IAS/IPS/NET/SET Coaching Classes

Name of the Department **Computer science** Year **2022 - 23**

Name of the Student **Satish. mehakare**

Father's/Guardian's Name **Rachappa mehakare**

Date of Birth

Date	Month	Year
0 1	0 3	2 0 0 0

Address for Correspondence :

Khasempur, Tq: Avrad (B), DIST: BIDAR

Semester/Class : **VIth sem BCA (IInd year)**

Register No : **B2043040**

Percentage of previous semester : **8.25 CGPA**

Contact No : **8073284050**

E-Mail ID : **satishmahakare907@gmail.com**

Course to be Joined :

Signature of the Student **01/08/22**

HOD/Coordinator
SRIKANTH DODDAMANI
Head & Associate Professor
Department of Computer Science
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Commerce College BIDAR

Principal
PRINCIPAL
Karnatak Arts, Sci. & Com. College
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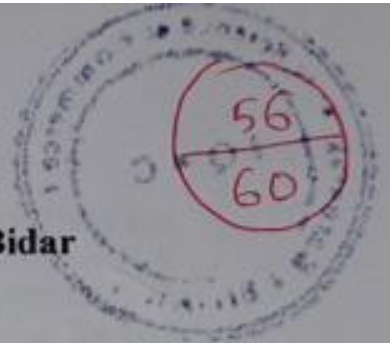
K.R.E Society's
Karnatak Arts, Science and Commerce College, Bidar
Department of Computer Science
Add-on course on Bio-Metric

Time: 60min
Name: Satish

Max Marks: 60
Reg No: B2013040

1) _____ is a branch of information technology that aims towards establishing one's identity based on personal traits.
   A. Control Systems
   B. Bio-metrics
   C. Convex Optimization
   D. Pulse

2) Bio-metrics is a technology used to _____ an individual's physical and behavioural characteristics.
   A. identify
   B. analyse
   C. measure
   D. All of the above

3) In 2001, Bio-metrics Automated Tool-set (BAT) was introduced in Kosovo, which provided a concrete identification means.
   A. TRUE
   B. FALSE
   C. Can be true or false
   D. Cannot say

4) Bio-metrics is used for _____ a person.
   A. authenticating
   B. authorizing
   C. authenticating and authorizing
   D. None of the above

5) This uniqueness of a person is then used by the biometric systems to?
   A. Identify and verify a person
   B. Authenticate a person to give appropriate rights of system operations
   C. Keep the system safe from unethical handling
   D. All of the above

6) Which process tries to find out answer of question, Are you the same who you are claiming to be? or Do I know you?
   A. Verification
   B. Authentication
   C. Authorization
   D. Security

7). _____ is a digital reference of the distinct characteristics that are extracted from a biometric sample.

A. Candidate/Subject
B. Enrollment
C. Biometric Template ②
D. FAR

8) FAR stands for?
A. False Authentication Rate
B. False Acceptance Rate ②
C. False Authorization Rate
D. False Authorization Risk

9) _____ pertains to the behaviour exhibited by people or the manner in which people perform tasks such as walking, signing, and typing on the keyboard.
A. Physiological Modalities
B. Biometric Modalities ②
C. Behavioral bio-metrics
D. None of the above

10) _____ is the manner of a person's walking.
A. Signature Recognition System
B. Gait Recognition ②
C. Keystroke Recognition System
D. None of the above

11) Gait is non-invasive.
A. TRUE
B. FALSE
C. Can be true or false ②
D. Cannot say

12) Which of the following Demerits of Gait Recognition System?
A. It may not be as reliable
B. no model is developed with complete accuracy till now ②
C. It does need the candidate cooperation
D. Both A and B

13) To acquire adequate amount of data, the signature should be _____ enough to fit on tablet and big enough to be able to deal with.
A. big
B. medium
C. small
D. very small

14) Signature Recognition System is a invasive tool.
A. TRUE
B. FALSE
C. Can be true or false ②
D. Can not say

15) Which of the following is used in document verification and authorization?

A. Signature Recognition System
B. Gait Recognition
C. Keystroke Recognition System
D. All of the above

16) _____ is the duration of time for which a key is pressed.
A. Dwell time
B. Flight time
C. Static
D. None of the above (2)

17) Which of the following Merits of Keystroke Recognition System?
A. It needs no special hardware to track this biometric
B. It is a quick and secure way of identification. (2)
C. A person typing does not have to worry about being watched.
D. All of the above

18) Intrinsic failures contain?
A. non-working sensors
B. failure of feature extraction (2)
C. decision making modules
D. All of the above

19) The biometric system can be accessible to malicious users if its hardware, software, and user data are not safeguarded.
A. Yes
B. No (2)
C. Can be yes or no
D. Can not say

20) The security of a biometric system is important as the biometric data is not easy to?
A. replace
B. revoke
C. Both A and B (2)
D. None of the above

21) Which is identification of involved resources such as entities and components?
A. Authenticity
B. Confidentiality
C. Non-repudiation (2)
D. Integrity

22) Authenticity is the quality or the state of being pure, genuine, or original.
A. TRUE
B. FALSE
C. Can be true or false (2)
D. Can not say

23) Which is the most known and used bio-metrics solution to authenticate people on biometric systems?

A. Voice Recognition System
B. Facial Recognition System
C. Fingerprint Recognition System
D. Iris Recognition System

24) How many basic patterns of ridges?
A. 0
B. 1
C. 2
D. 3

25) Fingerprint is one of oldest and most popular recognition technique.
A. TRUE
B. FALSE
C. Can be true or false
D. Can not say

26) Iris recognition works on the basis of iris pattern in human eye.
A. Yes
B. No
C. Can be yes or no
D. Can not say

27) What are Demerits of Facial Recognition System?
A. Facial traits change over time
B. Uniqueness is not guaranteed
C. It requires adequate lighting to get correct input
D. All of the above

28) National security and Identity cards such as Adhaar card in India is an Applications of?
A. Voice Recognition System
B. Iris Recognition System
C. Fingerprint Recognition System
D. Facial Recognition System

29) _____ biometric modality is a combination of both physiological and behavioral modalities.
A. Multi-modal Biometric
B. Voice recognition
C. Biometric Modality
D. Signal Processing

30) Voice recognition is nothing but _____ recognition.
A. vocal
B. iris
C. sound
D. face