

### **1.1.3 Employability/ Entrepreneurship/soft skill courses offered**

#### **Department of CSE-AI&ML**

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**Department of CSE-AI&ML**  
AR21 Curriculum  
2<sup>nd</sup> Year

S.No	Course Code	Course Name	POs	L	T	P	C
<b>Third Semester</b>							
1	21MA304	Probability and Statistics using Python	1,4, 12	3	-	2	4
2	21ML302	Artificial Intelligence	1,2,3	3	-	-	3
3	21CS303	Data Structures	1,2,12	3	-	-	3
4	21CS304	Digital Logic Design	1, 4	3	-	2	4
5	21DS305	Mathematical Foundation for Computer Science and Data Science	1,12,PSO1	3	-	-	3
6	21CS306	Object Oriented Programming with JAVA	1,2,3	3	-	-	3
7	21CS307	Data Structures Lab	2,3,4,5	-	-	3	1.5
8	21CS308	JAVA Lab	2,3,4,5	-	-	3	1.5
9	21BEA01	Environmental Studies	1,7	-	-	-	-
10	21ESX01	Employability Skills I	1,2,5,8,10, 12	0	-	2	-
11	21HSX11	CC & EC Activities I	6,7, 9,10	-	-	1	-
<b>Total</b>				<b>18</b>	<b>-</b>	<b>13</b>	<b>23</b>
<b>Fourth Semester</b>							
1	21IT304	Database Management Systems	1,4,12	3	-	-	3
2	21IT403	Operating Systems	1,12	3	-	-	3
3	21CS403	Computer Organization and Architecture	1,12	3	-	-	3
4	21CS404	Design and Analysis of Algorithms	2,3	3	-	2	4
5	21ML405	Foundations of Machine learning	2, 3, PSO1, PSO2	3	-	-	3
6	21IT308	Database Management Systems Lab	4	-	-	3	1.5
7	21ML407	Foundations of Machine learning Lab	4,5,8	-	-	3	1.5
8	21ESX01	Employability Skills I	1,2,5,8,10, 12	0	-	2	2
9	21HSX11	CC & EC Activities I	6,7, 9,10	-	-	1	1
<b>Total</b>				<b>15</b>	<b>-</b>	<b>11</b>	<b>22</b>

**Comment [s1]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Comment [s2]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Comment [s3]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Comment [s4]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Comment [s5]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Comment [s6]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Comment [s7]:** 1st BOS of CSE-AI&ML dated 20-06-2022

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**Comment [s9]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Comment [s10]:** 1st BOS of CSE-AI&ML dated 20-06-2022

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**Comment [s12]:** 1st BOS of CSE-AI&ML dated 20-06-2022

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**Comment [s15]:** 1st BOS of CSE-AI&ML dated 20-06-2022

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**Comment [s18]:** 1st BOS of CSE-AI&ML dated 20-06-2022

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**Comment [s20]:** 1st BOS of CSE-AI&ML dated 20-06-2022

**Department of Computer Science & Engineering**  
**Specialization in CSE- Artificial Intelligence & Machine Learning (CSE- AIML)**

**1st BOS - MINUTES OF MEET**

**Person in Chair:** Dr A Venkata Ramana, HoD CSE, GMRIT

**Dated:** 20.06.2022 (Monday)

**Venue:** Online Teams

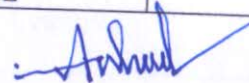
**Time(s):** 03.00 PM TO 4.30 PM

S.No	Points Discussed	Remarks
1	<p><b>Agenda:</b></p> <ul style="list-style-type: none"> <li>➤ Review of the Curriculum and Course Titles of AR21 Academic Regulation.</li> <li>➤ Review of Titles and Syllabus of 3rd and 4th Semester Curriculum under AR2.</li> <li>➤ Finalization of Course Titles of Electives under Academic Regulations 2021.</li> <li>➤ Review of B.Tech Honors &amp; Minors.</li> <li>➤ Any Other Item</li> </ul>	
	<ul style="list-style-type: none"> <li>• Preamble and the context is set for the 1<sup>st</sup> BOS Meeting by the Principal Dr CLVRSV Prasad requesting the Academia/ Alumni and Industry to suggest in designing the best, distinct-industry driven curriculum for the specialization course CSE-AIML.</li> <li>• HOD CSE welcomed all the Experts of Academia / Industry and Alumni for todays 1<sup>st</sup>-BOS Meet by throwing some glimpse on the AR21 Course Structure, Career Paths and 3<sup>rd</sup> &amp; 4<sup>th</sup> Sem Syllabus.</li> </ul>	
2	<p><b>AIML Curriculum:</b></p> <ol style="list-style-type: none"> <li>a) External BOS Members suggested to have syllabus only upto 2<sup>nd</sup> Year in advance for BOS meetings, as these specializations are emerging trends and need revision on timely basis.</li> <li>b) Suggested to add the concern POs and PSOs applicable for the core courses of the stream.</li> <li>c) Suggested to have No Subjects in 8<sup>th</sup> Semester as per JNTUK Norms.</li> <li>d) Suggested to have Seminar/ Project/ Internship in the 8<sup>th</sup> Semester</li> <li>e) Suggested not to have any courses under MOOCs, except from Swayam/ NPTEL Platform, not exceeding more than 6 Credits.</li> <li>f) Suggested to add a mandate course in the Curriculum, i.e., Universal Human Values II- 3 Credit Course. ( Reference Link is Given )</li> </ol>	



3	<p><b>III rd Semester Subjects:</b></p> <p>a) <b>Foundations of AI &amp; ML:</b> Revise the Subject Name from Foundations of AI &amp; ML to Fundamentals of AI &amp; ML.</p> <p>b) Statistical Analysis using Python</p> <p>c) Data Structures</p> <p>d) Digital Logic Design</p> <p>e) Object Oriented through Java</p>	Syllabus is Good and Fine.
	<p><b>Mathematical Foundation for Computer Science:</b> Needed thorough changes, syllabus seems to look like discrete mathematics. Syllabus should show some focus towards linear algebra, matrix theory and Calculus for machine learning.</p>	Suggested for a revision.
4	<p><b>IVth Semester Subjects:</b></p> <p>a) <b>Data Visualization for Machine Learning</b> Suggested to add 3D Surface Visualization Concepts.</p> <p>b) <b>Data Visualization for Machine Learning Lab</b></p> <ul style="list-style-type: none"> <li>• Suggested to add two or three experiments related to 3D Surfaces in Lab Component.</li> <li>• Suggested to use PEP tool for Python</li> <li>• Suggested to work on the Guidelines provided by the Industries for Visualization.</li> <li>• Suggested to add programs for Code Correction and Code Inspection using available tools of Open Source.</li> </ul>	Need Revision
	<p><b>IVth Semester Subjects:</b></p> <ul style="list-style-type: none"> <li>• Database Management Systems</li> <li>• Operating Systems</li> <li>• Computer Architecture and Organization</li> <li>• Design and Analysis of Algorithms</li> </ul>	Syllabus is Good and Fine.
5	<p><b>Other Items Discussed:</b></p> <p>a) Observed 30% of Changes from CSE Curriculum w.r.t CSE-AIML Curriculum</p> <p>b) External BOS Members informed to add Math and Statistical Components as much as possible.</p> <p>c) Thoroughly check the Credit Balancing Component as suggested by AICTE(in LTPC structure).</p> <p>d) Credit is completely based on Weekly Contact Hours. Tutorials also should carry credit, if included in the Course Structure.</p> <p>e) Display of all the career path courses as needed and took suggestions.</p> <p>f) Suggested to refer syllabus from IITK &amp; IIT Roorkee for specializations.</p> <p>g) Suggested to go through this Reference Link: <a href="https://docs.google.com/viewer?a=v&amp;pid=sites&amp;srcid=am50dWNlay5hYy5pbnxqbnR1Y2VrX3ZpY2UtcHJpbmNpcGFsfGd40jZhNDQyY2RhZmI4ZDNiN2E">https://docs.google.com/viewer?a=v&amp;pid=sites&amp;srcid=am50dWNlay5hYy5pbnxqbnR1Y2VrX3ZpY2UtcHJpbmNpcGFsfGd40jZhNDQyY2RhZmI4ZDNiN2E</a></p>	

Prepared By:  
Dr.V.Prasad

  
Board Chairman- HOD- CSE