

**1.2.2 List of Programs offered through Choice Based Credit System  
(CBCS)/Electives Course System  
Department of CSE-AI&DS  
INDEX**

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**Department of CSE-AI&DS**

Minimum Credits to be earned: 160 (for Regular Students)

123 (for Lateral Entry Students)

S.No	Course Code	Course Name	POs	L	T	P	C
<b>First Semester</b>							
1	21HSX01	Communicative English	10, 12	2	-	-	2
2	21MAX01	Engineering Mathematics I	1	3	-	-	3
3	21PYX01 21CYX01	Engineering Physics / Engineering Chemistry	1 / 1	3/3	-	-	3/3
4	21BEX01 21BEX06	Basics of Engineering / IT Workshop	1,12/1,12	3/-	-	-/3	3/1.5
5	21BEX02	Problem Solving and Programming Skills	1, 12	3	-	-	3
6	21BEX03	Problem Solving and Programming Skills Lab	4	-	-	3	1.5
7	21BEX04/ 21BEX05	Engineering Drawing / Engineering Workshop	1,5,10/1,9,10	-	-	3/3	1.5/1.5
8	21PYX02/ 21CYX02	Engineering Physics Lab /Engineering Chemistry Lab	4/4	-	-	3/3	1.5
9	21HSX02/-	Communicative English Lab/-	10,12	-	-	3/-	1.5/-
		<b>Total</b>	<b>14/11</b>	<b>-</b>	<b>12/12</b>	<b>20/17</b>	
<b>Second Semester</b>							
1.		Language Elective	10,12	2	-	-	2
2.	21MAX02	Engineering Mathematics II	1	3	-	-	3
3.	21CYX01/ 21PYX01	Engineering Chemistry /Engineering Physics	1/1	3/3	-	-	3/3
4.	21BEX01/ 21BEX06	Basics of Engineering/ IT Workshop	1,12/1,12	-/3	-	3/-	1.5/3
5.	21BEX07	Python Programming	1,12	3	-	-	3
6.	21BEX08	Python Programming Lab	4	-	-	3	1.5
7.	21BEX05/ 21BEX04	Engineering Workshop / Engineering Drawing	1,9,10/1,5,10	-	-	3/3	1.5/1.5
8.	21CYX02/ 21PYX02	Engineering Chemistry Lab/Engineering Physics Lab	4/4	-	-	3/3	1.5/1.5
9.	-/21HSX02	-/Communicative English Lab	-/10,12	-	-	-/3	-/1.5
		<b>Total</b>	<b>11/14</b>	<b>-</b>	<b>12/12</b>	<b>17/20</b>	
<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,PS01	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	1,12	3	-	-	3

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		Architecture					
4	21CS404	Design and Analysis of Algorithms	2,3	3	-	2	4
5	21DS405	Foundations of Data Science	2, 3, PSO1, PSO2	3	-	-	3
6	21IT308	Database Management Systems Lab	4	-	-	3	1.5
7	21DS407	Foundations of Data Science 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>11</b>	<b>22</b>
<b>Fifth Semester</b>							
1	21IT405	Web Technologies (Integrated)	3,5,PSO1	3	-	2	4
2	21DS502	Deep Learning for Data Science	1,2,4,5,12	3	-	-	3
3	21DS503	Data Analytics & Visualization Techniques (Integrated)	1,4,PSO1	3	-	2	4
4	21ML504	Computer Networks	1, 2,3	3	-	-	3
5		Elective I (Professional Elective)		3	-	-	3
6		Elective II (Open Elective I)		3	-	-	3
7	21DS507	Deep Learning Lab		-	-	3	1.5
8	21TPX01	Term Paper	1,4,10,12	-	-	3	1.5
9	21ESX02	Employability Skills II	1,2,5,8,10,12	0	-	2	-
10	21HSX12	CC & EC Activities II	6,7, 9,10	-	-	1	-
11	21SIX01	Summer Internship I	1,2,8,10,12	-	-	-	1
		<b>Total</b>		<b>18</b>	-	<b>12</b>	<b>24</b>
<b>Six Semester</b>							
1.	21DS601	Optimization Techniques for ML	2,3,PSO1,PSO2	3	-	-	3
2.	21IT602	Automata and Compiler Design	1,2,3	3	-	-	3
3.	21CS603	Software Engineering	4,5,8,11, PSO1	3	-	-	3
4.		Elective III (Professional Elective)		3	-	2	4
5.		Elective IV (Open Elective II)		3	-	-	3
6.	21DS606	Optimization Techniques for ML Lab	4, 5	-	-	3	1.5
7.	21MPX01	Mini Project	4, 5,08	-	-	3	1.5
8.	21ESX02	Employability Skills II	All Pos & PSOs	0	-	2	2
9.	21HSX12	CC & EC Activities II	1,2,3,5,6,8,10,12	-	-	1	1
10.	21ATX01	Environmental Studies	6,7,9,10	-	-	-	-
11.	21ATX02	Professional Ethics and Human Values	1,7	-	-	-	-
12.	21ATX---	Audit Course	----	-	-	-	-
		<b>Total</b>		<b>15</b>	-	<b>8</b>	<b>22</b>
<b>Seventh Semester</b>							
1		Elective V (Professional Elective)		3	-	-	3
2		Elective VI (Professional Elective)		3	-	-	3
3		Elective VII (Open Elective III)		3	-	-	3
4		Summer Internship II	1,2,5,6,10,12	-	-	-	1
5		Project	All POs & PSOs	-	-	16	8
		<b>Total</b>		<b>9</b>	-	<b>16</b>	<b>18</b>
<b>Eighth Semester</b>							
1		Elective VIII (Professional Elective)		-	-	-	3
2		Elective IX (Open Elective IV)		-	-	-	3
3	21FIX01	Full Semester Internship (FSI)	1,2,5,8,9,10, PSO1,PSO2	-	-	-	8
		<b>Total</b>		<b>6</b>	-	-	<b>14</b>

## List of Electives

List of Electives							
Language Electives							
No.	Course Code	Course	POs	Contact Hours			
				L	T	P	C
1	21HSX03	Advanced Communicative English	10,12	2	-	-	2
2	21HSX04	Communicative German		2	-	-	2
3	21HSX05	Communicative French		2	-	-	2
4	21HSX06	Communicative Japanese		2	-	-	2
5	21HSX07	Communicative Spanish		2	-	-	2
6	21HSX08	Communicative Korean		2	-	-	2
7	21HSX09	Communicative Hindi		2	-	-	2

**Comment [s1]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective I							
Career Path I, II, III							
1	21MLC11	Computer Vision & Pattern Recognition	1,3,PS01,PS02	3	-	-	3
2	21CSC21	Web Programming Languages (Full Stack Developer)	1,2,7,12	3	-	-	3
3	21MLC31	Fundamentals of Cloud Computing	2,6,7,8	3	-	-	3

**Comment [s2]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Non-Career Path (Core Electives)							
4	21CS004	Principles of Programming Languages	1, 2, 3, 4	3	-	-	3
5	21CS005	Mobile Computing	3, 8	3	-	-	3
6	21CS006	Distributed Operating Systems	1,2	3	-	-	3
7		MOOCs/Honors		3	-	-	3

**Comment [s3]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective II: Open Elective I							
1	21CE001	Disaster Management	2, 7	3	-	-	3
2	21EE001	Electrical Installation and Safety Measures	2,3,6,8	3	-	-	3
3	21DS001	Fundamentals of Data Science	3,PS01,PS02	3	-	-	3
4	21ME001	Fundamentals of Optimization Techniques	1, 2	3	-	-	3
5	21EC001	Sensors for Engineering Applications	1, 2	3	-	-	3
6	21CS001	Fundamentals of Artificial Intelligence ( <b>Except CSE &amp; IT</b> )	1, 2, 3	3	-	-	3
7	21IT001	Fundamentals of Multimedia	1, 5, 7	3	-	-	3

**Comment [s4]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective III		Fundamentals of Mathematics		1, 3, 7	3		3
Career Path I, II, III							
1	21MLC12	Machine Learning for Business Intelligence	2,3,PS01,PS02	3	-	2	4
2	21CSC22	Web Application Developments Framework (Full Stack Developer)	1, 3,4	3	-	2	4
3	21MLC32	Cloud Services using AWS		3	-	2	4

**Comment [s5]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Non-Career Path (Core Electives)							
4	21CS007	Cloud Computing Essentials	2,5,6,7,8	3	=	2	4
5	21CS008	Cryptography and Network Security	3, 6,8	3	-	2	4

**Comment [s6]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective IV: Open Elective II							
1	21CE002	Air Pollution and Environmental Impact Assessment	6, 7,12	3	-	-	3
2	21EE002	Renewable Energy Sources	2, 7	3	-	-	3
3	21ME002	Principles of Entrepreneurship	1,11	3	-	-	3
4	21EC002	Electronics for Agriculture	1, 2	3	-	-	3
5	21CS002	Fundamentals of Machine Learning	2, 3	3	-	-	3
6	21CH002	Industrial Safety and Hazard Management	2, 6, 7,8	3	-	-	3
7	21IT002	Fundamentals of Cloud Computing	1, 7	3	-	-	3
8	21BS002	Advanced Numerical Techniques	1, 2	3	-	-	3
9	21BS003	Functional Materials and Applications	1, 2	3	-	-	3

**Comment [s7]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective V		Functional Materials and Applications		1, 2	3		3
Career Path I, II, III							
1	21MLC13	Conversational AI	1,2,4,12,PSO1	3	-	-	3
2	21CSC23	Web Application Databases (Full Stack Developer)	2,3	3	-	-	3
3	21MLC33	Cloud Security Essentials	2,3	3	-	-	3

**Comment [s8]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Non-Career Path (Core Electives)						
4	21IT008	Social Network Analysis	2, 4, 5	3	-	3
5	21CS011	Optimization Techniques	2, 3, 5	3	-	3
6	21CS012	Wireless Adhoc Networks	2, 3	3	-	3
7		MOOCs/Honors		3	-	3

**Comment [s9]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective VI						
1	21CS014	Green Computing	2,3,6,7	3	-	3
2	21CS015	Software Project Management	3,6	3	-	3
3	21CS016	Soft Computing	1,2,3,4	3	-	3
4		MOOCs/Honors		3	-	3

**Comment [s10]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective VII: Open Elective III						
1	21CE003	Solid Waste Management	2,3,12	3	-	3
2	21EE003	Fundamentals of Electrical Vehicle Technology	2,3,12	3	-	3
3	21ME003	Industrial Engineering and Management	1,11	3	-	3
4	21EC003	Interfacing and Programming with Arduino	1,2	3	-	3
5	21CS003	Data Science for Engineering Applications	2,3,4	3	-	3
6	21CH003	Industrial Ecology for Sustainable Development	2,6,7	3	-	3
7	21IT003	Fundamentals of Mobile Computing	1,7	3	-	3
8	21BS004	Advanced Materials of Renewable Energy	1,7	3	-	3
9	21BS005	Applied Linear Algebra for Engineers	1,12	3	-	3

**Comment [s11]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective VIII: Professional Elective						
1	21CS017	Fundamentals of Social Network Analysis	2, 4,5	-	-	3
2	21CS018	Information Retrieval Systems	1,2,3,4	-	-	3
3	21CS019	Fundamentals of Devops	1,3, 5,8,10	-	-	3
4		MOOCs/Honors		-	-	3

**Comment [s12]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Elective IX: Open Elective IV						
1	21CE019	Green Buildings	2,3,4,5,7	-	-	3
2	21EE017	Sustainable Energy	1,2,12	-	-	3
3	21ME004	Total Quality Management	1,11	-	-	3
4	21EC011	Communication Technologies	1,2	-	-	3
5	21CS020	Applications of Artificial Intelligence	2,3,6,7	-	-	3
6	21CH016	Green Technologies	1,6,7	-	-	3
7	21IT015	Human Computer Interaction	1,7	-	-	3
8	21BS006	Handling of Industrial Waste and Wastewater	1,7	-	-	3

**Comment [s13]:** Approved 1<sup>st</sup> BOS on 20-06-2022

Audit Course						
1	21AT001	Communication Etiquette in Workplaces	-	-	-	-
2	21AT002	Contemporary India: Economy, Policy and Society	-	-	-	-
3	21AT003	Design The Thinking	-	-	-	-
4	21AT004	Ethics and Integrity	-	-	-	-
5	21AT005	Indian Heritage and Culture	-	-	-	-
6	21AT007	Intellectual Property Rights and Patents	-	-	-	-
7	21AT008	Introduction to Journalism	-	-	-	-
8	21AT009	Mass Media Communication	-	-	-	-
9	21AT010	Science, Technology and Development	-	-	-	-
10	21AT011	Social Responsibility	-	-	-	-
11	21AT012	The Art of Photography and Film Making	-	-	-	-
12	21AT013	Gender Equality for Sustainability	-	-	-	-
13	21AT014	Women in Leadership	-	-	-	-
14	21AT015	Introduction to Research Methodology	-	-	-	-
15	21AT016	Climate Change and Circular Economy	-	-	-	-

B. Tech. (Honors)						
Domain I (Data Engineering)						
01	21CSH11	Advanced Data Structures	2,3,4	4	-	4
02	21CSH12	Advanced Databases	2,3,4	4	-	4

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03	21CSH13	Programming, Data Structures and Algorithms Using Python	2,3,4,5	4	-	-	4
04	21CSH14	Bioinformatics	2,3	4	-	-	4
<b>Domain II (Modern Software Engineering)</b>							
01	21CSH21	DevOps	1,3,5,8,10	4	-	-	4
02	21CSH22	Design Patterns	2,3	4	-	-	4
03	21CSH23	Advanced Software Engineering	1,3,4, PS01	4	-	-	4
04	21CSH24	Robotic Process Automation	3,5, 8, PS02	4	-	-	4
<b>Domain III (Security)</b>							
01	21CSH31	Fundamentals of Systems Security	1,2	4	-	-	4
02	21CSH32	Python Programming for Security	2,3,4	4	-	-	4
03	21CSH33	Management of Information Security	3,6,7	4	-	-	4
04	21CSH34	Computer Forensics	2,3	4	-	-	4
<b>Domain IV (User Interface Design)</b>							
01	21CSH41	Computer Graphics	1,2,3,4	4	-	-	4
02	21CSH42	Multimedia Systems	3,4	4	-	-	4
03	21CSH43	Human Computer Interaction	2,3	4	-	-	4
04	21CSH44	Mobile Programming	3,4	4	-	-	4

**B. Tech. (Minors)**

<b>Energy Science &amp; Technology</b>							
01	21CHM11	Foundation of Energy Science and Technology	1,2,3,5,7,12	4	-	-	4
02	21CHM12	Energy Generation from Waste	1,2,3,4,5	4	-	-	4
03	21CHM13	Energy Storage Systems	1,2,3,6,7	4	-	-	4
04	21CHM14	Hydrogen Energy and Fuel Cells	1,2,3,7	4	-	-	4
<b>Nano Science &amp; Technology</b>							
01	21CHM21	Introduction and Characterization of Nano Materials	1,2,3,7	4	-	-	4
02	21CHM22	Carbon Nanostructures and Applications	1,3,4,5	4	-	-	4
03	21CHM23	Energy, Environment & Biomedical Nanotechnology	1,2,3,7	4	-	-	4
04	21CHM24	Industrial Applications of Nano Technology	2,3,5,,7	4	-	-	4
<b>Environmental Engineering</b>							
01	21CEM11	Watershed Management	6,7	4	-	-	4
02	21CEM12	Industrial Pollution Control and Engineering	3,6,7,12	4	-	-	4
03	21CEM13	Solid and Hazardous Waste Management	1,3,6,7	4	-	-	4
04	21CEM14	Ecology and Environmental Assessment	1,3,6,7	4	-	-	4
<b>Artificial Intelligence &amp; Machine Learning</b>							
01	21CSM11	Fundamentals of AI & Machine Learning	1,12	4	-	-	4
02	21CSM12	Feature Engineering for Machine Learning	1,2,3	4	-	-	4
03	21CSM13	Exploratory Data Analytics	1,4	4	-	-	4
04	21CSM14	Foundations of Deep Learning	1,2, 4	4	-	-	4
<b>Cyber Security</b>							
01	21CSM21	Fundamentals of Security	1,2	4	-	-	4
02	21CSM22	Management of Information Security	3,6,7	4	-	-	4
03	21CSM23	Cyber Security	1,3,4	4	-	-	4
04	21CSM24	Fundamentals of Cloud Security	2,3	4	-	-	4
<b>Data Science &amp; Analytics</b>							
01	21CSM31	Data Cleaning	2,3,4	4	-	-	4
02	21CSM32	Data Engineering	1,2,3,4	4	-	-	4
03	21CSM33	Text Analytics	1,2,4	4	-	-	4
04	21CSM34	Social Network and Semantic Analysis	2, 4	4	-	-	4
<b>Computer Systems Programming</b>							
01	21CSM41	Programming Fundamentals	1,2,3	4	-	-	4
02	21CSM41	Data Structures & Algorithms	1,2,3,4	4	-	-	4
03	21CSM41	Fundamentals of Databases	1,4	4	-	-	4
04	21CSM41	Fundamentals of Computer Networks & Operating Systems	1,2,3	4	-	-	4

<b>Digital IC Design</b>							
01	21ECM11	Fundamentals of VLSI Design	1,2,3	4	-	-	4
02	21ECM12	Digital Design using HDL	1,2,3	4	-	-	4
03	21ECM13	FPGA Technology	1,2	4	-	-	4
04	21ECM14	Analog and Mixed Signal Design	1,2	4	-	-	4
<b>Industrial Automation</b>							
01	21ECM21	Microcontrollers and Interfacing	1,2,3	4	-	-	4
02	21ECM22	Sensors and Data Acquisition System	1,2	4	-	-	4
03	21ECM23	Fundamentals of Labview	1,2	4	-	-	4
04	21ECM24	Medical Robotics	1,2,3	4	-	-	4
<b>Communications and Networking</b>							
01	21ECM31	Principles of Communications	1,2	4	-	-	4
02	21ECM32	Coding Theory and Practice	1,2	4	-	-	4
03	21ECM33	Ad-hoc and Wireless Sensor Networks	1,2,3	4	-	-	4
04	21ECM34	Fundamentals of Multimedia Networking	1,2,3	4	-	-	4
<b>Avionics</b>							
01	21ECM41	Principles of Aerodynamics	1,2	4	-	-	4
02	21ECM42	Aircraft Electrical Systems	1,2	4	-	-	4
03	21ECM43	Aircraft Instrument Systems	1,2	4	-	-	4
04	21ECM44	Aircraft Communication and Navigational Systems	1,2	4	-	-	4
<b>Geographic Information System</b>							
01	21ECM51	Sensors and Sensing Technology	1,2	4	-	-	4
02	21ECM52	Geographic Information Systems	1,2	4	-	-	4
03	21ECM53	Digital Image Processing	1,2	4	-	-	4
04	21ECM54	Lidar Systems	1,2	4	-	-	4
<b>Electric Vehicles Technology</b>							
01	21EEM11	Introduction to Electric Vehicles Technologies	2,3	4	-	-	4
02	21EEM12	Electrical Drives and Controllers for Electric Vehicles	2,3	4	-	-	4
03	21EEM13	Charging Technology in Electric Vehicles	2,3	4	-	-	4
04	21EEM14	Computer Vision in Electric Vehicles	2,3	4	-	-	4
<b>Electric Vehicles Technology</b>							
01	21EEM21	Fundamentals of Smart City	2,3	4	-	-	4
02	21EEM22	Smart City Infrastructure	2,3	4	-	-	4
03	21EEM23	Computational Methods for Smart City Management	2,3	4	-	-	4
04	21EEM24	Communication Technologies and Mobility for Smart City	2,3	4	-	-	4
<b>Electric Vehicles Technology</b>							
01	21EEM31	Modelling and Simulations of Industrial Applications	2,3	4	-	-	4
02	21EEM32	Industrial Sensors and Actuators	2,3	4	-	-	4
03	21EEM33	Programmable Logic Controllers	2,3	4	-	-	4
04	21EEM34	Control Design for Industrial Applications	2,3	4	-	-	4
<b>Cloud Application Development</b>							
01	21ITM11	Introduction to Cloud Computing	6, 7, 12	4	-	-	4
02	21ITM12	Introduction to Web Development with HTML, CSS, JavaScript	1, 2, 3, 9, 12	4	-	-	4
03	21ITM13	Developing Cloud Native Applications	5, 8, 10	4	-	-	4
04	21ITM14	Developing Cloud Apps with Node.js and React	5, 8, 10	4	-	-	4
<b>Robotics and Automation</b>							
01	21MEM11	Introduction to Robotics	1,2,3	4	-	-	4
02	21MEM12	Drives and Sensors	1,2,3,4	4	-	-	4
03	21MEM13	Control Systems for Robotics	1,2,3,4	4	-	-	4
04	21MEM14	Machine Learning for Robotics	2,5	4	-	-	4
<b>Industrial Systems Engineering</b>							
01	21MEM21	Industrial Management	1,10,11,12	4	-	-	4
02	21MEM22	Fundamentals of Operations Research	1,2,3,5	4	-	-	4
03	21MEM23	Enterprise Resource Planning	1,2,3,5,11,12	4	-	-	4
04	21MEM24	Production Planning and Control	1,2,3,5,11,12	4	-	-	4



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**Department of Computer Science & Engineering**  
**Specialization in CSE- Artificial Intelligence & Data Science (CSE- AIDS)**

**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	<b>Agenda:</b> <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-AIDS.</li><li>• HOD CSE welcomed all the Experts of Academia / Industry and Alumni for today's 1<sup>st</sup>-BOS Meet by throwing some glimpse on the AR21 Course Structure, Career Paths and 3rd and 4th Sem Syllabus.</li></ul>	
2	<b>AIDS Curriculum:</b> <ul style="list-style-type: none"><li>a) External BOS Members suggested to have syllabus revision only for the upcoming year (upto 2<sup>nd</sup> Year now) 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></ul>	



	c) Suggested to have No Subjects in 8 <sup>th</sup> Semester as per JNTUK Norms. d) Suggested to have Seminar/ Project/ Internship in the 8 <sup>th</sup> Semester e) Suggested not to have any courses under MOOCs, except from Swayam/ NPTEL Platform, not exceeding more than 6 Credits. f) Suggested to add a mandate course in the Curriculum, i.e., Universal Human Values II- 3 Credit Course.( Reference Link is Given )	
3	<b>IIIrd Semester Subjects:</b> <ul style="list-style-type: none"> <li>a) Fundamentals of Artificial Intelligence</li> <li>b) Statistical Analysis using Python</li> <li>c) Data Structures</li> <li>d) Digital Logic Design</li> <li>e) Object Oriented through Java</li> </ul>	Syllabus is Good and Fine.
	<b>Mathematical Foundation for Data Science:</b> <ul style="list-style-type: none"> <li>• Needed thorough changes, syllabus seems to look like discrete mathematics. The syllabus should show focus more on distribution components- Normal Distribution and Poisons Distribution.</li> </ul>	Suggested for a revision.
4	<b>IVth Semester Subjects:</b> <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.
	<b>Foundation of Data Science:</b> <ul style="list-style-type: none"> <li>• Needed thorough changes.</li> <li>• Focus more on statistical component needed for Data Science.</li> <li>• Suggested to add, worlds famous algorithm for data science Grade Boosting Algorithm.</li> </ul>	Suggested for a revision.
5	<b>Other Items Discussed:</b> <ul style="list-style-type: none"> <li>a) Observed 30% of Changes from CSE Curriculum w.r.t CSE-AIDS Curriculum</li> <li>b) External BOS Members informed to add Statistical Components as much as possible.</li> <li>c) Thoroughly check the Credit Balancing Component as suggested by AICTE (in LTPC structure).</li> </ul>	

