

Course Name & Course Code: Analog and Digital Electronics (21CS33)

[illegible]

Course Name & Course Code: Computer Organization and Architecture (21CS34)

[illegible]

Course Name & Course Code: Data Structures and Applications (21CS32)

[illegible]



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Department of Artificial Intelligence & Data Science (AI & DS)

Course Name & Course Code: OOP with Java Laboratory (21CSL35)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CSL35.1	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL35.2	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL35.3	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL35.4	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL35.5	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Mastering Office (21CSL381)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CSL381.1	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL381.2	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL381.3	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL381.4	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL381.5	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Balake Kannada (21KBK37)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C208.1	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0
C208.2	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0
C208.3	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0
C208.5	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0

Course Name & Course Code: Samskrutika Kannada (21KSK37)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C207.1	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0
C207.2	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0
C207.3	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0
C207.4	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0

Course Name & Course Code: Design and Analysis of Algorithms (21CS42)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 21CS42.1	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO 21CS42.2	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO 21CS42.3	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO 21CS42.4	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO 21CS42.5	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Microcontroller and Embedded Systems (21CS43)

[illegible]

Course Name & Course Code: Operating Systems (21CS44)

[illegible]



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Department of Artificial Intelligence & Data Science (AI & DS)

Course Name & Course Code: Biology for Engineers (21BE45)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO45.1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
CO45.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
CO45.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
CO45.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3

Course Name & Course Code: Python Programming Laboratory (21CSL46)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CSL46.1	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL46.2	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL46.3	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL46.4	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL46.5	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Web Programming (21CSL481)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CSL481.1	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL481.2	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL481.3	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL481.4	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL481.5	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Constitution of India (21CIP47)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO 21CIP47.1	0	0	0	0	0	1	0	3	2	3	0	1	0	0	3
CO 21CIP47.2	0	0	0	0	0	1	0	3	2	3	0	1	0	0	3
CO 21CIP47.3	0	0	0	0	0	1	0	3	2	3	0	1	0	0	3
CO 21CIP47.4	0	0	0	0	0	1	0	3	2	3	0	1	0	0	3
CO 21CIP47.5	0	0	0	0	0	1	0	3	2	3	0	1	0	0	3

Course Name & Course Code: Automata Theory and Compiler Design (21CS51)

[illegible]

Course Name & Course Code: Computer Networks (21CS52)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21CS52.1	2	2	0	0	3	0	0	0	0	0	0	0	3	0	0
CO21CS52.2	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21CS52.3	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21CS52.4	2	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Database Management Systems (21CS53)

[illegible]



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Department of Artificial Intelligence & Data Science (AI & DS)



Course Name & Course Code: Principles of Artificial Intelligence (21AI54)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21AI54.1	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI54.2	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI54.3	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI54.4	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI54.5	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Research Methodology & IPR (21RMI56)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21RMI56.1	3	1	0	0	3	3	0	1	0	0	0	0	0	0	3
CO21RMI56.2	3	1	0	0	3	3	0	1	0	0	0	0	0	0	3
CO21RMI56.3	3	1	0	0	3	3	0	1	0	0	0	0	0	0	3
CO21RMI56.4	3	1	0	0	3	3	0	1	0	0	0	0	0	0	3
CO21RMI56.5	3	1	0	0	3	3	0	1	0	0	0	0	0	0	3

Course Name & Course Code: Environmental Studies (21CIV57)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21CIV57.1	3	3	2	1	0	0	0	3	3	0	0	0	0	0	2
CO21CIV57.2	3	3	2	1	0	0	0	3	3	0	0	0	0	0	2
CO21CIV57.3	3	3	2	1	0	0	0	3	3	0	0	0	0	0	2
CO21CIV57.4	3	3	2	1	0	0	0	3	3	0	0	0	0	0	2

Course Name & Course Code: DBMS Lab with Mini Project (21CSL55)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CSL55.1	3	3	2	2	0	0	3	0	0	0	0	0	3	0	0
21CSL55.2	3	3	2	2	1	0	3	0	0	0	0	0	3	0	0
21CSL55.3	3	3	2	2	1	0	3	0	0	0	0	0	3	0	0

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Department of Artificial Intelligence & Data Science (AI & DS)



Course Name & Course Code: Angular JS (21CSL581)

CO-PO/PSO Mapping	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
21CSL581.1	3	3	2	1	1	0	3	0	0	0	0	0	3	0	0
21CSL581.2	3	3	2	1	1	0	3	0	0	0	0	0	3	0	0
21CSL581.3	3	3	2	1	1	0	3	0	0	0	0	0	3	0	0
21CSL581.4	2	1	1	0	3	0	0	0	0	0	0	0	3	0	0
21CSL581.5	2	1	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Software Engineering & Project Management (21CS61)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21CS61.1	2	2	0	0	1	0	0	0	3	0	3	0	3	0	3
CO21CS61.2	2	2	0	0	1	0	0	0	3	0	3	0	3	0	3
CO21CS61.3	2	2	1	0	1	0	0	0	3	0	3	0	3	0	3
CO21CS61.4	2	2	1	0	1	0	0	0	3	0	3	0	3	0	3
CO21CS61.5	2	2	1	0	1	0	0	0	3	0	3	0	3	0	3

Course Name & Course Code: Data Science and Its Applications (21AD62)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21AD62.1	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AD62.2	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AD62.3	3	2	0	0	3	0	0	0	0	0	0	0	3	0	0
CO21AD62.4	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AD62.5	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0

Course Name & Course Code: Machine Learning (21AI63)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21AI63.1	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI63.2	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI63.3	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI63.4	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0
CO21AI63.5	3	2	1	0	3	0	0	0	0	0	0	0	3	0	0



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Department of Artificial Intelligence & Data Science (AI & DS)

Course Name & Course Code: Business Intelligence (21AI641)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21AI641.1	3	2	1	0	3	0	0	0	0	0	0	0	0	3	0
CO21AI641.2	3	2	1	0	3	0	0	0	0	0	0	0	0	3	0
CO21AI641.3	3	2	1	0	3	0	0	0	0	0	0	0	0	3	0
CO21AI641.4	3	2	1	0	3	0	0	0	0	0	0	0	0	3	0
CO21AI641.5	3	2	1	0	3	0	0	0	0	0	0	0	0	3	0

Course Name & Course Code: Renewable Energy (21ME652)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21ME652.1	3	2	0	0	0	0	0	0	0	0	0	0	0	3	0
CO21ME652.2	3	2	1	0	0	0	0	0	0	0	0	0	0	3	0
CO21ME652.3	3	2	1	0	0	0	0	0	0	0	0	0	0	3	0
CO21ME652.4	3	2	1	0	0	0	0	0	0	0	0	0	0	3	0

Course Name & Course Code: Mini / Major Project (21ADMP67)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21ADMP67.1	3	3	3	3	0	2	1	0	3	3	3	3	3	1	2
CO21ADMP67.2	3	3	3	3	0	2	1	0	3	3	3	3	3	1	2
CO21ADMP67.3	3	3	3	3	0	2	1	0	3	3	3	3	3	1	2
CO21ADMP67.4	3	3	3	3	0	2	1	0	3	3	3	3	3	1	2
CO21ADMP67.5	3	3	3	3	0	2	1	0	3	3	3	3	3	1	2

Course Name & Course Code: Innovation / Entrepreneurship / Internship (21INT68)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21INT68.1	3	3	2	1	1	0	1	0	0	1	0	1	1	1	1
CO21INT68.2	3	3	2	1	1	0	1	0	0	1	0	1	1	1	1
CO21INT68.3	3	3	2	1	1	0	1	0	0	1	0	1	1	1	1
CO21INT68.4	3	3	2	1	1	0	1	0	0	1	0	1	1	1	1

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO21INT68.5	3	3	2	1	1	0	1	0	0	1	0	1	1	1	1

Course Name & Course Code: Data Visualization (21AD71)

[illegible]

Course Name & Course Code: Cloud Computing (21AD72)

[illegible]

Course Name & Course Code: RPA Design and Development (21CS744)

[illegible]

Course Name & Course Code: Internet of Things (21CS735)

[illegible]

Course Name & Course Code: Project / Internship (21ADPP76)

CO-PO/PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C406.1	3	3	3	3	1	2	1	0	3	3	3	3	3	2	2
C406.2	3	3	3	3	1	2	1	0	3	3	3	3	3	2	2
C406.3	3	3	3	3	1	2	1	0	3	3	3	3	3	2	2
C406.4	3	3	3	3	1	2	1	0	3	3	3	3	3	2	2
C406.5	3	3	3	3	1	2	1	0	3	3	3	3	3	2	2

Course Name & Course Code: Non-Traditional Machining (21ME751)

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Department of Artificial Intelligence & Data Science (AI & DS)

Course Name & Course Code: Technical Seminar (21AD81)

CO-PO/PSO Mapping	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
C407.1	3	3	0	0	0	0	1	0	0	0	0	0	2	2	2
C407.2	3	3	0	0	0	0	1	0	0	0	0	0	2	2	2
C407.3	3	3	0	0	0	0	1	0	0	0	0	0	2	2	2
C407.4	3	3	0	0	0	0	1	0	0	0	0	0	2	2	2
C407.5	3	3	0	0	0	0	1	0	0	0	0	0	2	2	2

Course Name & Course Code: Industrial Internship (21INT822)

CO-PO/PSO Mapping	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
CO21INT82.1	3	2	1	1	1	1	1	0	0	0	1	0	1	1	1
CO21INT82.2	3	2	1	1	1	1	1	0	0	0	1	0	1	1	1
CO21INT82.3	3	2	1	1	1	1	1	0	0	0	1	0	1	1	1
CO21INT82.4	3	2	1	1	1	1	1	0	0	0	1	0	1	1	1
CO21INT82.5	3	2	1	1	1	1	1	0	0	0	1	0	1	1	1