

Program- Artificial Intelligence and Data Science (Autonomous Curriculum Structure)

A. Definition of Credit:

1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
1 Hr. Practical (P) per week	0.5 credits
2 Hours Practical (Lab)/week	1 credit

B. Range of credits –

A range of credits from 160 to 176 for a student to be eligible to get Undergraduate degree in Engineering. A student will be eligible to get Undergraduate degree with Honors 20 credits and/or Minors 14 credits, if he/she completes additional credits.

C. Credit for Undergraduate Degree in Artificial Intelligence and Data Science

Sr. No.	Year	Semester	Credits
1	First Year	I	19
2		II	21
3	Second Year	III	22
4		IV	24
5	Third Year	V	23
6		VI	25
7	Final Year	VII	12
8		VIII	14
Total Credits			160

D. Structure of Undergraduate Engineering program

Sr. no.	Domains	Code	Credits	NEP Suggested
1	Basic Science courses	BSC	19	14-18
2	Engineering Science courses	ESC	16	12-16
3	Programme Core Courses	PCC	59	44-56
4	Programme Elective courses	PEC	14	20
5	Open Elective other than particular Programme	OEC	06	08
6	Vocational and Skill Enhancement Course	VSE	08	08
7	Humanities Social Science and Management	HSM	12	14
8	Experiential Learning Courses	ELC	22	22
9	Liberal Learning Courses	LLC	04	04
Total			160	160-176



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E. Domain wise credits Distribution

Sr. no.	Domain Code	Credits									
		Semesters								Total	NEP
		I	II	III	IV	V	VI	VII	VIII		
1	ADBSC	08	08	03	--	--	--	--	--	19	14-18
2	ADESC	09	07	--	--	--	--	--	--	16	16-12
3	ADPCC	--	--	13	16	13	13	04	--	59	44-56
4	ADPEC	--	--	--	--	04	04	06	--	14	20
5	ADOEC	--	--	03	--	03	--	--	--	06	08
6	ADVSE	01	01	--	03	--	03	--	--	08	08
7	ADHSM	--	--	03	03	03	03	--	--	12	14
8	ADELC	03	03	--	--	--	--	02	14	22	22
9	ADLLC	--	--	--	02	--	02	--	--	04	04
Total Credits		21	19	22	24	23	25	12	14	160	160-176
Exam Total		650	650	725	725	725	725	600	600	5400	
Total Working Hours per Week		30	28	26	28	28	31	18	26	215	

F. Honors Structure: Advance in Artificial Intelligence and Data Science

Sr. No.	Courses Name	Offered in semester	Credits
1	DevOps and Agile Software Development	5 th	4
2	Continuous Integration and Continuous Delivery	6 th	4
3	Application Containerization and Orchestration	7 th	5
4	System Provisioning and Configuration Management	8 th	5
Total			18

G. B. Tech (Honors with Research)

Sr No	Code	Courses Name	Hours per week			Credit	Examination Scheme					Total
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADHDR708	Research Methodology	3	-	-	3	40#	60*	-	-	-	100
2	ADHDR709	Mathematical Modeling	3	-	-	3	40#	60*	-	-	-	100
3	ADHDR710	Dissertation Phase I	-	-	4	2	-	-	25	-	25	50
4	ADHDR804	Research Publication and Ethics	2	-	-	2	20#	30#	-	-	-	50
5	ADHDR805	Paper Publication	-	-	4	2	-	-	50	-	-	50
6	ADHDR806	Dissertation Phase II	-	-	12	6	-	-	100	-	50	150
Total			08	-	20	18	100	150	175	-	75	500

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H. BSC/ESC Courses

Sr. No.	Course Code	Course Name	Sem	Hours per week			Credits	Examination scheme					Total
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADBSC302	Discrete Mathematics and Statistics	III	03	--	--	03	40 [#]	60*	--	--	--	100
Total				03	--	--	03	40[#]	60*	--	--	--	03

I. Major Courses

Sr. No.	Course Code	Course Name	Sem	Hours per week			Credits	Examination scheme					Total
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADPCC303	Software Engineering	III	3	--	--	3	40 [#]	60*	--	--	--	100
2	ADPCC304	Data Structure	III	3	--	--	3	40 [#]	60**	--	--	--	100
3	ADPCC305	Object Oriented Programing	III	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC307	Object Oriented Programming Laboratory	III	--	--	4	2	--	--	25	50	--	75
5	ADPCC308	Data Structure Laboratory	III	--	--	4	2	--	--	25	50	--	75
6	ADPCC402	Artificial Intelligence	IV	3	--	--	3	40 [#]	60*	--	--	--	100
7	ADPCC403	Database Management Systems	IV	3	--	--	3	40 [#]	60*	--	--	--	100
8	ADPCC404	Exploratory Data Analysis	IV	3	--	--	3	40 [#]	60**	--	--	--	100
9	ADPCC405	Operating Systems	IV	3	--	--	3	40 [#]	60*	--	--	--	100
10	ADPCC407	Database Management Systems Laboratory	IV	--	--	4	2	--	--	25	50	---	75
11	ADPCC408	Artificial Intelligence and Data Analysis Laboratory	IV	--	--	4	2	--	--	25	50	--	75
12	ADPCC502	Computer Network	V	3	--	--	3	40 [#]	60*	--	--	--	100
13	ADPCC503	Machine Learning	V	3	--	--	3	40 [#]	60*	--	--	--	100
14	ADPCC504	Web Technology	V	3	--	2	4	40 [#]	60**	--	--	--	100
15	ADPEC505	Elective-I	V	3	--	--	3	40 [#]	60*	--	--	--	100
16	ADPCC507	Machine Learning Laboratory	V	--	--	4	2	--	--	25	25	---	50
17	ADPCC508	Computer Network Laboratory	V	--	--	2	1	--	--	25	25	---	50
18	ADPEC509	EL-I Laboratory	V	--	--	2	1	--	--	25	25	---	50
19	ADPCC602	Deep learning	VI	3	--	--	3	40 [#]	60*	--	--	--	100
20	ADPCC603	Cloud Computing	VI	3	--	--	3	40 [#]	60*	--	--	--	100
21	ADPCC604	ML Ops	VI	3	--	2	4	40 [#]	60**	--	--	--	100
22	ADPEC605	Elective-II	VI	3	--	--	3	40 [#]	60*	--	--	--	100
23	ADPCC607	Deep Learning	VI	--	--	2	1	--	--	25	25	---	50

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		Laboratory											
24	ADPCC608	ML Ops Laboratory	VI	--	--	4	2	--	--	25	50	--	75
25	ADPEC609	EL-II Laboratory	VI	--	--	2	1	--	--	--	25	--	25
26	ADPCC701	Soft Computing	VII	3	--	--	3	40 [#]	60*	--	--	--	100
27	ADPEC702	Elective III	VII	2	--	--	2	40 [#]	60*	--	--	--	100
28	ADPEC703	Elective IV	VII	2	--	--	2	40 [#]	60*	--	--	--	100
29	ADPCC704	Soft Computing Laboratory	VII	--	--	2	1	--	--	25	25	--	50
30	ADPEC705	EL-III Laboratory	VII	--	--	2	1	--	--	25	25	--	50
31	ADPEC706	EL-IV Laboratory	VII	--	--	2	1	--	--	25	25	--	50
32	ADELC707	Project stage – I	VII	--	--	4	2	--	--	50	--	100	150
33	ADELC801	Internship/ 2 MOOCs	VIII	2	--	8	12	--	--	200 [@]	--	100	300
34	ADELC802	Project Stage – II	VIII	--	--	12	2	--	--	200	--	100	300
Total				57	1	66	89	720	1080	750	450	300	3300

J. Minor Courses: Artificial Intelligence and Data Science

Sr. No.	Course Code	Course Name	Semester	Hours per week			Credits	Examination scheme					
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADMNR301	Python Programming for Data Science	III	3	--	--	3	--	75*	--	--	--	75
2	ADMNR302	Python Programming for Data Science Laboratory	III	-	--	2	1	---	--	25	--	--	25
3	ADMNR401	Artificial Intelligence	IV	3	--	--	3	--	75*	--	--	--	75
4	ADMNR402	Artificial Intelligence Laboratory	IV	-	--	2	1	---	--	25	--	--	25
5	ADMNR501	Machine Learning	IV	3	--	--	3	--	75*	--	--	--	75
6	ADMNR502	Machine Learning Laboratory	IV	-	--	2	1	---	--	25	--	--	25
7	ADMNR601	Deep Learning	VI	3	--	--	3	--	75*	--	--	--	75
8	ADMNR602	Deep Learning Laboratory	VI	-	--	2	1	---	--	25	--	--	25
Total				12	--	08	16	---	300	100	--	--	400



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K. Open Elective Courses

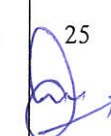
Sr. No.	Course Code	Course Name	Sem	Hours per week			Credits	Examination scheme					Total
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADOEC306	Digital Forensics	III	3	--	--	3	40 ^s	60 ^{ss}	---	--	--	100
2	ADOEC506	User Interface and User Experience	V	3	--	--	3	40 ^s	60 ^{ss}	---	--	--	100
Total				6	--	--	6	80	120	---	--	---	200

L. Vocational and Skill Enhancement Courses

Sr. No.	Course Code	Course Name	Sem	Hours per week			Credits	Examination scheme					Total
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADVSE406	Data Analytics with Python	IV	1	--	4	3	--	--	50	50	--	100
2	ADVSE606	Applied Accelerated Artificial Intelligence	VI	1	--	4	3	--	--	50	50	--	100
Total				02	--	08	6	--	--	100	100	--	200

M. Humanities Social Science and Management Courses

Sr. No.	Course Code	Course Name	Sem	Hours per week			Credits	Examination scheme					Total
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADHSM301	Democracy Election & Constitution	III	2	--	--	2	--	--	50	--	--	50
2	ADHSM309	Audit course - Vedic Mathematics	III	1	--	--	1	--	--	25	--	--	25
3	ADHSM401	Project Management	IV	2	--	--	2	--	--	25	--	25	50
4	ADHSM409	Audit course Sustainable Development goals	IV	1	--	--	1	--	--	25	--	--	25
5	ADHSM501	Intellectual Property Rights	V	2	--	--	2	--	--	25	--	25	50
6	ADHSM510	Audit Course Foreign Language Level-I (German/ Japanese)	V	1	--	--	1	--	--	25	--	--	25
7	ADHSM601	Seminar and Technical Paper Writing	VI	1	--	2	2	--	--	50	--	---	50
8	ADHSM6010	Audit Course Foreign Language Level-II (German/ Japanese)	VI	1	--	--	1	--	--	25	--	--	25
Total				11	0	2	12	0	0	250	0	50	300


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N. Experiential Learning Courses

Sr. No.	Course Code	Course Name	Sem	Hours per week			Credits	Examination scheme					Total
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADELC707	Project stage – I	VII	--	--	4	2	--	--	50	--	100	150
2	ADELC801	Internship/ 2 MOOCs	VIII	2	--	20	12	--	--	200 [@]	--	100	300
3	ADELC802	Project Stage-II	VIII	--	--	4	2	--	--	200	--	100	300
Total				2	---	28	16	--	--	450	--	300	750

O. Liberal Learning Courses

Sr. No.	Course Code	Course Name	Sem	Hours per week			Credits	Examination scheme					Total
				Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	
1	ADLLC410	Lifelong Learning Skills-1	IV	--	--	--	1	--	--	--	--	--	--
2	ADLLC411	Lifelong Learning Skills-2	IV	--	--	--	1	--	--	--	--	--	--
3	ADLLC611	Lifelong Learning Skills-3	VI	--	--	--	1	--	--	--	--	--	--
4	ADLLC612	Lifelong Learning Skills-4	VI	--	--	--	1	--	--	--	--	--	--
Total				--	--	--	4	--	--	--	--	--	--



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All the students are required to acquire 2 credits, one each from A. and B. which will have grades as below:

i. Extracurricular Activities:

Sr. No.	Activity	Level	Achievement	Grade	Achievement	Grade
1.	Sports	Inter collegiate	Participation	P	Prize winner	C
		University	Participation	C	Prize winner	B
		Zonal	Participation	B	Prize winner	B+
		State	Participation	B+	Prize winner	A
		National	Participation	A	Prize winner	A+
		International	Participation	A+	Prize winner	O
2.	NSS/NCC	Camp	Attended	B		
		Camp + 5 Activities	Attended	B+		
		Camp + 10 Activities	Attended	A		
		Camp + 15 Activities	Attended	A+		
		Camp + 20 Activities	Attended	O		
3.	Cultural	Inter collegiate	Participation	B	Prize winner	B+
		State	Participation	B+	Prize winner	A
		National	Participation	A	Prize winner	A+
		International	Participation	A+	Prize winner	O
4.	Community Engagement	Certified by NGO/Authorities with report and geo-tagged photograph	1 Activity	B		
			2 Activities	B+		
			3 Activities	A		
			4 Activities	A+		
			5 Activities	O		



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ii. Co-curricular Activities:

Sr. No	Activity	Level	Achievement	Grade	Achievement	Grade
1.	Conference	National	Participation	B	Prize winner	A
		International	Participation	B+	Prize winner	A+
		International (Scopus indexing)	Participation	A+	Prize winner	O
2.	Journal Publication	Non-refereed but recognized and reputed journal/ periodical, having ISSN number.		B		
		Refereed Journal - As listed by UGC		A		
		Refereed Journals- As listed by Scopus		A+		
		Refereed Journals - As listed by SCI/ SCIE		O		
3.	Hackathon		Participation	A+	Prize winner	O
4.	Professional Body	National	Membership	P	3 rd Prize	A
			Activities/participation	B	2 nd Prize	A+
			5 participations	B+	1 st Prize	O
5.	Internship	1 week	Completed	C		
		2 week	Completed	B		
		3 week	Completed	B+	Sponsored Project	A+
		4 week	Completed	A	Job through internship	O
6.	Entrepreneurship	Awareness camp	Attended	A	Product Developed	A+
					Own Startup	O
7.	Project/Technical events	Inter collegiate	Participation	P	Prize winner	C
		University	Participation	C	Prize winner	B
		Zonal	Participation	B	Prize winner	B+
		State	Participation	B+	Prize winner	A
		National	Participation	A	Prize winner	A+
		International	Participation	A+	Prize winner	O

Any activity other than listed above but having equal weight age should be considered for getting additional credit.




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P. Exit Courses

Exit Course after First Year : One Year UG Certificate in Artificial Intelligence												
Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADEX101	Artificial Intelligence and Data Analysis Laboratory	--	--	4	2	--	--	50	--	--	50
2	ADEX102	Data Structure Laboratory	--	--	4	2	--	--	50	--	--	50
3	ADEX103	Internship	-	--	8	4	--	--	100	--	--	100
Total			-	--	16	8	-	-	200	--	--	200

Exit Course after Second Year : Two Years UG Diploma in Deep Learning												
Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADEX201	Machine Learning Laboratory	--	--	4	2	--	--	50	--	--	50
2	ADEX202	Deep Learning Laboratory	--	--	4	2	--	--	50	--	--	50
3	ADEX203	Internship	-	--	8	4	--	--	100	--	--	100
Total			-	--	16	8	-	-	200	--	--	200

Exit Course after Third Year : Three Years Bachelor's Degree in Vocation (B. Voc.) or B. Sc. in Artificial Intelligence												
Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADEX301	Soft Computing Laboratory	--	--	4	2	--	--	50	--	--	50
2	ADEX302	Project stage – I	--	--	4	2	--	--	50	--	--	50
3	ADEX303	Internship	-	--	8	4	--	--	100	--	--	100
Total			-	--	16	8	-	-	200	--	--	200


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Artificial Intelligence and Data Science - Second Year (Semester –III)

Sr. No.	Course Code	Course Name	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADHSM301	Democracy, Election and Governance	2	--	--	2	--	--	50	--	---	50
2	ADBSC302	Discrete Mathematics and Statistics	3	--	--	3	40 [#]	60*	---	--	--	100
3	ADPCC303	Software Engineering	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC304	Data Structure	3	--	--	3	40 [#]	60**	--	--	--	100
5	ADPCC305	Object Oriented Programing	3	--	--	3	40 [#]	60*	--	--	--	100
6	ADOEC306	Digital Forensics	3	--	--	3	40 ^{\$}	60 ^{\$\$}	---	--	--	100
7	ADPCC307	Object Oriented Programming Laboratory	--	--	4	2	--	--	25	50	--	75
8	ADPCC308	Data Structure Laboratory	--	--	4	2	--	--	25	50	--	75
9	ADHSM309	Audit course - Vedic Mathematics	1	--	--	1	--	--	25	--	--	25
Total			18	--	08	22	200	300	125	100	--	725

* End Semester Examination (ESE) based on subjective questions.

** Practical or Activity based Evaluation.

In Semester Evaluation based on Presentation/Group Discussion/Laboratory Work/Course Project/Home Assignment/Comprehensive Viva Voce/Blog Writing/Case Study/Survey/Multiple-Choice Question (MCQ) examination.

\$ For MOOCs: Assignments marks will be converted on the scale of 40 marks.

\$\$ For MOOCs: Score of examination conducted by the respective authority of MOOC or Score of ESE Conducted by Institute will be converted on the scale of 60 marks.

MOOC: Digital Forensics: https://onlinecourses.swayam2.ac.in/nou23_cs11/preview



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Artificial Intelligence and Data Science - Second Year (Semester –IV)

Sr. No.	Course Code	Course Name	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADHSM401	Project Management	2	--	--	2	--		25	--	25	50
2	ADPCC402	Artificial Intelligence	3	--	--	3	40 [#]	60*	--	--	--	100
3	ADPCC403	Database Management Systems	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC404	Exploratory Data Analysis	3	--	--	3	40 [#]	60**	--	--	--	100
5	ADPCC405	Operating Systems	3	--	--	3	40 [#]	60*	--	--	--	100
6	ADVSE406	Data Analytics with Python	1	--	4	3	--	--	50	50	--	100
7	ADPCC407	Database Management Systems Laboratory	--	--	4	2	--	--	25	50	---	75
8	ADPCC408	Artificial Intelligence and Data Analysis Laboratory	--	--	4	2	--	--	25	50	--	75
9	ADHSM409	Audit course Sustainable Development goals	1	--	-	1	--	--	25	--	--	25
10	ADLLC410	Lifelong Learning Skills-1	--	--	--	1	--	--	--	--	--	--
11	ADLLC411	Lifelong Learning Skills-2	--	--	--	1	--	--	--	--	--	--
Total			16	--	12	24	160	240	150	150	25	725

* **End Semester Examination (ESE)** based on subjective questions.

** **Practical or Activity based Evaluation.**

In Semester Evaluation based on Presentation/Group Discussion/Laboratory Work/Course Project/Home Assignment/Comprehensive Viva Voce/Blog Writing/Case Study/Survey/Multiple-Choice Question (MCQ) examination.

\$ **For MOOCs:** Assignments marks will be converted on the scale of 40 marks.

MOOC: Data Analytics with Python:

Data Analytics with Python - Course (nptel.ac.in)


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Artificial Intelligence and Data Science - Third Year (Semester –V)

Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADHSM501	Intellectual Property Rights	2	--	--	2	--	--	25	--	25	50
2	ADPCC502	Computer Networks	3	--	--	3	40 [#]	60*	--	--	--	100
3	ADPCC503	Machine Learning	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC504	Web Technology	3	--	2	4	40 [#]	60**	--	--	--	100
5	ADPEC505	Elective-I	3	--	--	3	40 [#]	60*	--	--	--	100
6	ADOEC506	User Interface and User Experience	3	--	--	3	40 ^{\$}	60 ^{\$\$}	---	--	--	100
7	ADPCC507	Machine Learning Laboratory	--	--	4	2	--	--	25	25	---	50
8	ADPCC508	Computer Network Laboratory	--	--	2	1	--	--	25	25	--	50
9	ADPEC509	EL-I Laboratory	--	--	2	1	--	--	25	25	--	50
10	ADHSM510	Audit Course Foreign Language Level-I (German/ Japanese)	1	--	--	1	--	--	25	--	--	25
Total			18	0	10	23	200	300	125	75	25	725

* End Semester Examination (ESE) based on subjective questions.

** Practical or Activity based Evaluation.

In Semester Evaluation based on Presentation/Group Discussion/Laboratory Work/Course Project/Home Assignment/Comprehensive Viva Voce/Blog Writing/Case Study/Survey/Multiple-Choice Question (MCQ) examination.


\$ For MOOCs: Assignments marks will be converted on the scale of 40 marks.

Elective-I

1. Design and Analysis of Algorithm
2. Data Analytics using Power BI and Tableau
3. Application Programming Interface

MOOC: User Interface and User Experience

<https://www.coursera.org/specializations/ui-ux-design>


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Program – Artificial Intelligence and Data Science

Artificial Intelligence and Data Science - Third Year (Semester –VI)

Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADHSM601	Seminar and Technical Paper Writing	1	--	2	2	--	--	50	--	---	50
2	ADPCC602	Deep learning	3	--	--	3	40 [#]	60*	--	--	--	100
3	ADPCC603	Cloud Computing	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC604	ML Ops	3	--	2	4	40 [#]	60**	--	--	--	100
5	ADPEC605	Elective-II	3	--	--	3	40 [#]	60*	--	--	--	100
6	ADVSE606	Applied Accelerated Artificial Intelligence	1	--	4	3	--	--	50	50	--	100
7	ADPCC607	Deep Learning Laboratory	--	--	2	1	--	--	25	25	---	50
8	ADPCC608	ML Ops Laboratory	--	--	4	2	--	--	25	50	--	75
9	ADPEC609	EL-II Laboratory	--	--	2	1	--	--	--	25	--	25
10	ADHSM6010	Audit Course Foreign Language Level-II (German/ Japanese)	1	--	--	1	--	--	25	--	--	25
11	ADLLC611	Lifelong Learning Skills-3	--	--	--	1	--	--	--	--	--	--
12	ADLLC612	Lifelong Learning Skills-4	--	--	--	1	--	--	--	--	--	--
Total			15	0	16	25	160	240	175	150	--	725
13	ADMC6012	Audit course-4	Entrepreneurship Development Program(Lecture of one hour per week)									

* **End Semester Examination (ESE)** based on subjective questions.

** **Practical or Activity based Evaluation.**

In Semester Evaluation based on Presentation/Group Discussion/Laboratory Work/Course Project/Home Assignment/Comprehensive Viva Voce/Blog Writing/Case Study/Survey/Multiple-Choice Question (MCQ) examination.

\$ **For MOOCs:** Assignments marks will be converted on the scale of 40 marks.

\$\$ **For MOOCs:** Score of examination conducted by the respective authority of MOOC or Score of ESE Conducted by Institute will be converted on the scale of 60 marks.

Elective-II

1. Natural Language Processing
2. High Performance Computing
3. Distributed Systems

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Artificial Intelligence and Data Science - Final Year (Semester –VII)

Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADPCC701	Soft Computing	3	--	--	3	40 [#]	60*	--	--	--	100
2	ADPEC702	Elective III	2	--	--	2	40 [#]	60*	--	--	--	100
3	ADPEC703	Elective IV	2	--	--	2	40 [#]	60*	--	--	--	100
4	ADPCC704	Soft Computing Laboratory	--	--	2	1	--	--	25	25	--	50
5	ADPEC705	EL-III Laboratory	--	--	2	1	--	--	25	25	--	50
6	ADPEC706	EL-IV Laboratory	--	--	2	1	--	--	25	25	--	50
7	ADEL707	Project stage – I	--	--	4	2	--	--	50	--	100	150
Total			8	0	10	12	120	180	125	75	100	600

MOOC: Applied Accelerated Artificial Intelligence:

Applied Accelerated Artificial Intelligence - Course (nptel.ac.in)

* **End Semester Examination (ESE)** based on subjective questions.

** **Practical or Activity based Evaluation.**

In Semester Evaluation based on Presentation/Group Discussion/Laboratory Work/Course Project/Home Assignment/Comprehensive Viva Voce/Blog Writing/Case Study/Survey/Multiple-Choice Question (MCQ) examination.

\$ **For MOOCs:** Assignments marks will be converted on the scale of 40 marks.

\$\$ **For MOOCs:** Score of examination conducted by the respective authority of MOOC or Score of ESE Conducted by Institute will be converted on the scale of 60 marks.


Elective-III

1. Advance Imaging System
2. Cyber security
3. Edge Artificial Intelligence Computing

Elective-IV

1. Software Testing & Quality Assurance
2. Human Computer Interaction
3. Artificial Intelligence Internet of Things (AI-IoT)

MOOC: Principle of Optimization: <https://nptel.ac.in/courses/112105235>


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Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADELC801	Internship/ 2 MOOCs/ Entrepreneurship/ Foreign University Certificate Course	2	--	20	12	--	--	200@	--	100	300
2	ADELC802	Project Stage-II	--	--	4	2	--	--	200	--	100	300
Total			6	0	24	14	--	--	400	0	200	600

\$ For MOOCs: Assignments marks will be converted on the scale of 40 marks.

\$\$ Score of examination conducted by the respective authority of MOOC or Score of ESE Conducted by Institute will be converted on the scale of 60 marks.

@ Marks obtained in two MOOCs will be converted on the scale of 200 marks.

**Intelligent Process
Automation**

<https://www.udemy.com/course/beginners-guide-to-cognitive-automation-anywhere/>

Under ADPROJ802 Massive Open Online Courses (not less than 8 week) listed below:

Data Science:	https://www.edx.org/course/data-science-productivity-tools?hs_analytics_source=referrals&utm_source=mooc.org&utm_medium=referral&utm_campaign=mooc.org-course-list
Productivity Tools	
Principles, Statistical and Computational Tools for Reproducible Data Science	https://www.edx.org/course/principles-statistical-and-computational-tools-for?hs_analytics_source=referrals&utm_source=mooc.org&utm_medium=referral&utm_campaign=mooc.org-course-list
Emotional Intelligence	https://onlinecourses.nptel.ac.in/noc22_hs11/preview



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