

The Heritage Institution
KANYA MAHA VIDYALAYA, JALANDHAR
(Autonomous)

Session 2025-26



6th Meeting of Board of Studies

B.Voc. (Artificial Intelligence and Data Science)
(Semester I-VI)

(Under Credit Based Continuous Evaluation Grading System)

(12+3 System of Education)

Under DDU KAUSHAL KENDRA

Date: June07, 2025

Time: 10:30 a.m.

Online through: Zoom

KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
Faculty of Vocational Studies

B.Voc. (Artificial Intelligence and Data Science)
Notice of Sixth Board of Studies Meeting

The sixth meeting of the Board of Studies of B.Voc. Artificial Intelligence and Data Science will be held online via zoom cloud meeting.

Date:07-06-2025

Time: 10:30 a.m.

Venue: Online Meeting using Zoom

The following members are invited to attend the meeting:

1.	Dr. Sandeep Sharma(Professor & Head) Department of Computer Engineering & Technology, Guru Nanak Dev University,Amritsar(University Nominee)	Member
2.	Dr. Harsh K Verma (Professor & Head) Department ofComputerSc. and Engineering,National InstituteofTechnology,Jalandhar (OutsideParentUniversityNominee)	Member
3.	Dr. Dhavleesh Rattan (Assistant Professor) Department ofComputerSc. and Engineering, Punjabi University, Patiala (OutsideParentUniversityNominee)	Member
4.	Mr.PuneetJindal, CEO–Labellerr,Chandigarh (IndustryExpert)	Member
5.	Ms. SumanKhurana, Associate Professor and Head, PGDepartmentofComputer Science& Applications	Member
6.	Dr.PardeepArora,AssociateProfessor PGDepartmentofComputerScience&Applications Head, B.Voc.Artificial IntelligenceandDataScience	Member

KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
Faculty of Vocational Studies

Agenda of the Sixth Board of Studies Meeting

B.Voc. AI 6: 2025:1

To confirm the proceedings of the Fifth Board of Studies (BOS) meeting held on 31-07-2024.

B.Voc. AI 6: 2025:2

To discuss Action Taken Report of Fifth Board of Studies meeting held on 31-07-2024.

B.Voc. AI 6: 2025:3

To discuss the course scheme, course outcomes and syllabus of B.Voc.(Artificial Intelligence and Data Science)(Semester I, II, III, IV, V & VI) under Credit Based Continuous Evaluation Grading System (12+3 System of Education) for session 2025-2026.

Following Changes are proposed:

- To change course title from Assignment based on MS-Excel to Assignment based on Spreadsheet in Semester I
- To change course title from Industrial Training with Major Project to Industrial Training in Semester VI

B.Voc. AI 6: 2025:4

To approve the Examiners and Evaluator for
B.Voc.(Artificial Intelligence and Data Science)(Semester I, II, III, IV, V & VI)

KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
Faculty of Vocational Studies
Screenshots of Online BOS Meeting
June07, 2025

zoom Workplace Meeting Pardeep Arora's screen Recording View

BOS 25-26 Agenda (Compatibility Mode) - Microsoft Word

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KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
Faculty of Vocational Studies
Agenda of the Sixth Board of Studies Meeting

B.Voc. AI 6: 2025:1
To confirm the proceedings of the Fifth Board of Studies (BOS) meeting held on 31-07-2024.

B.Voc. AI 6: 2025:2
To discuss Action Taken Report of Fifth Board of Studies meeting held on 31-07-2024.

B.Voc. AI 6: 2025:3
To discuss the course scheme, course outcomes and syllabus of B.Voc. (Artificial Intelligence and Data Science) (Semester I, II, III, IV, V & VI) under Credit Based Continuous Evaluation Grading System (12+3 System of Education) for session 2025-2026.

B.Voc. AI 6: 2025:4
To approve the Examiners and Evaluator for B.Voc. (Artificial Intelligence and Data Science) (Semester I, II, III, IV, V & VI)

Page: 3 of 3 Words: 348 English (U.S.) 100%

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zoom Workplace Meeting Pardeep Arora's screen Recording View

BOS 24-25 proceedings (Read-Only) - Microsoft Word

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Item 8.Voc. AI S. 2024.1
Item 8.Voc. AI S. 2024.2
Item 8.Voc. AI S. 2024.4

			voice. to The students will be working on Machine learning and Data Visualization tools concepts. The students need to submit the self-made assignment at the end of the semester. The marks will be awarded to the student on the basis of Technical knowledge, Project reports and performance in viva-voice	
III	Workplace Management: BVIL-3114	Paper shifted from sem-IV of session 2023-2024 to Sem-III of session 2024-25	The suggested changes were made and the approved syllabi were implemented.	
IV	Assignment based on Unstructured Data Analysis using MongoDB and Python: BVII-4117	• Course Title from Minor Project IV to Assignment based on Unstructured Data Analysis using MongoDB and Python and Course Code from BVID-4117 to BVII-4117 • Course Content from The students will be working on a database	The suggested changes were made and the approved syllabi were implemented.	

Page: 13 of 20 Words: 3,272 English (U.S.)

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Pardeep Arora Jasleen Dr. Dhavleesh R... Dr. Sandeep Sharma Dr. Dhavleesh Rattan Dimple Suman Khurana Dr Harsh Verma

zoom Workplace Meeting 40-Minutes Recording View

Pardeep Arora Jasleen Dr. Dhavleesh R... Dimple Dr Harsh Verma

Dr. Sandeep Sharma

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KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
Faculty of Vocational Studies
Minutes of Sixth Board of Studies Meeting

The Sixth meeting of the Board of Studies of B.Voc. Artificial Intelligence and Data Science was held online via Zoom on 07-06-2025 at 10:30 a.m.

Venue: Online Meeting using Zoom

The following members attended the meeting and detailed minutes are listed below:

Members of BOS

1.	Dr. Sandeep Sharma (Professor & Head) Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar (University Nominee)	Member
2.	Dr. Harsh K Verma (Professor & Head) Department of Computer Sc. and Engineering, National Institute of Technology, Jalandhar (Outside Parent University Nominee)	Member

3.	Dr. Dhavleesh Rattan (Assistant Professor) Department of Computer Sc. and Engineering, Punjabi University, Patiala (Outside Parent University Nominee)	Member
4.	Mr. Puneet Jindal, CEO–Labellerr, Chandigarh (Industry Expert)	Member
5.	Ms. Suman Khurana, Associate Professor and Head, PG Department of Computer Science & Applications	Member
6.	Dr. Pardeep Arora, Associate Professor PG Department of Computer Science & Applications Head, B.Voc. Artificial Intelligence and Data Science	Member

Proceedings of Sixth Board of Studies Meeting

Dr. Pardeep Arora welcomed all the members of Board of Studies. He apprised the members that various required changes have been made in the syllabus to provide the students with the best of skills. He discussed the listed agenda items in detail, with the permission of committee members.

Item: B.Voc. AI 6: 2025:1

To confirm the Proceedings of Fifth Board of Studies meeting held on July 31, 2024.

Proceedings:

The Head of the department had sent the proceedings of the previous Board of Studies meeting held on July 31, 2024 through email to all the members and were approved by all the members. He highlighted the key points of the proceedings for approval of the house and they approved it through Zoom.

The house approved the Item: B.Voc. AI 6: 2025:1

Item: B.Voc. AI 6: 2025:2

To discuss Action Taken Report of Fifth Board of Studies meeting held on July 31, 2024.

The proposed syllabus and course outcomes of B.Voc. (Artificial Intelligence and Data Science) (Semester I, II, III, IV) under continuous evaluation system for the session 2023-24 was discussed by Board members and they approved the Syllabus with following changes:

Semester	Course Name and Course Code	Changes made	2022-2023	2023-2024
I	BVIP-1117, Lab in Office Fundamentals	Course Outcomes Added	No Course Outcomes	Course Outcomes Added: CO1: Learn to build and format formal word documents. CO2: Create and customize Tables and Graphics in word. CO3: Learn to build professional PowerPoint presentation by using animations and Transitions. CO4: Understand spreadsheet basics, create graphs, query, filter and analyse data using pivot tables of data.
		Practical Content Added	No Practical Syllabus	Practical Syllabus Added

I	BVID-1118, Minor Project -1	Change in Course Outcomes Contained 3 Course Outcomes	CO1: Apply the tools and techniques learnt in the course to process and analyse data for problems associated with AI and Data science. CO2: Apply their knowledge to work on assigned/self-identified project. CO3: Work within defined time and resource constraints while working with real world applications.	4th Course Outcome Added CO1: Collect and study data from reliable data sources CO2: Apply the tools and techniques learnt in the course to process and analyze data for problems associated with AI and Data science. CO3: Apply their knowledge to work on assigned/self-identified project. CO4: Work within defined time and resource constraints while working with real world applications.
II	BVIM-2117, Relational Database Management System	Change in Course Outcomes	Contained 5 Course Outcomes	Course Outcomes reduced to 4

Semester	Course Name and Course Code	Changes made	2022-2023	2023-2024
III	BVIL-3111, Statistical Inference-I	Course Outcome Added	Contained 3 Course Outcomes CO1: Comprehend the concepts of random variables. CO2: Implement	Course Outcome Added CO1: Comprehend

			Laplace theorem. CO3: Identify various probability distributions and sampling distributions.	the concepts of random variables. CO2: Implement the Laplace theorem. CO3: Understand various types of Probability distributions CO4: Identify various probability distributions and sampling distributions.
III	Machine Learning-I	Course Content added in Unit-IV	Latest Machine Learning models	Latest Machine Learning models: Decision Trees, Random Forest, Principal Component analysis, Support Vector Machine, Markov decision process, Stochastic Gradient Descent.
III	BVIP-3117, Data Storytelling and Presentation	Course Outcome Added	Contained 3 Course Outcomes CO1: Understand importance of Data Storytelling. CO2: Identify	Course Outcome Added CO1: Understand

			various graphs and plots. CO3: Present a data story.	importance of Data Storytelling. CO2: Recognize the process of preparing a Data story CO3: Identify and work with various graphs and plots. CO4: Present a data story.
III	BVIL-4113, Non-Relational Databases	Changes in Course Outcome	Contained 5 Course Outcomes	Course Outcomes reduced to 4
IV	BVID-4117, Minor Project-IV	Changes in Course Outcomes	Contained 3 Course Outcomes CO1: Apply CRUD: Create, Update, Delete and Query operation operations on Database. CO2: Apply their knowledge to work on small/medium scale database related project. CO3: Work within defined time and resource constraints while working with real world applications.	Course Outcome Added CO1: Collect data to perform Statistical Techniques using R Language. CO2: Apply CRUD: Create, Update, Delete and Query operation operations on Database. CO3: Apply their knowledge to work on small/medium scale NoSQL database or R language

				project. CO4: Work within defined time and resource constraints while working with real world applications.
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The House approved the Item: B.Voc. AI 6: 2025:2

Item: B.Voc. AI 6: 2025:3

To discuss the course scheme, course outcomes and syllabus of B.Voc.(Artificial Intelligence and Data Science)(Semester I, II, III, IV, V & VI) under Credit Based Continuous Evaluation Grading System (12+3 System of Education) for session 2025-2026.

Following Changes are proposed:

- To change course title from Assignment based on MS-Excel to Assignment based on Spreadsheet in Semester I
- To change course title from Industrial Training with Major Project to Industrial Training in Semester VI

The following changes have been made in syllabus for Session 2025-26:

Semester	Course Name and Course Code	Decisions Taken in meeting	Action Taken
I	Assignment based on MS-Excel: BVII-1118	• Course Title from Assignment based on MS-Excel to Assignment based on Spreadsheet	The suggested changes were made and the approved syllabi were implemented.
VI	Industrial Training with Major Project: BVID-6114	• Course Title from Industrial Training with Major Project to Industrial Training	The suggested changes were made and the approved syllabi were implemented.

The house approved the course scheme approved for B.Voc. (Artificial Intelligence and Data Science) Sem-I, II, III, IV, V & VI under Credit Based Continuous Evaluation Grading System for the session 2025-26 is as follows:

Scheme and Curriculum of Examinations of Three-Year Degree Programme
Bachelor of Vocation
(Artificial Intelligence and Data Science) Semester I
Session 2025-2026

Bachelor of Vocation (Artificial Intelligence and Data Science) Semester I									
Course Code	Course Title	Course Type	Credits		Marks				Examination time (in hours)
					Total	Ext.		CA	
			L-T-P	Total		L	P		
BVIL-1421/ BVIL-1031/ BVIL-1431	Punjabi (Compulsory)/ ¹ Basic Punjabi/ ² Punjab History and Culture	C	4-0-0	4	100	70	-	30	3
BVIM-1102	Communication Skills in English-I	AEC	3-0-1	4	100	50	20	30	3
BVIL-1113	Introduction to Computer and Information Technology	S	2-0-0	2	50	35	-	15	3
BVIL-1114	Introduction to Artificial Intelligence and Data Science	S	3-0-0	3	100	70	-	30	3
BVIL-1115	Office Fundamentals	S	2-0-0	2	50	35	-	15	3
BVIM-1116	Computational Problem Solving-I	S	2-0-2	4	100	35	35	30	3+3
BVIP-1117	Lab in Office Fundamentals	S	0-0-3	3	100	-	70	30	3
BVII-1118	Assignment based on Spreadsheet	S	0-2-2	4	100	-	70	30	3
VACF-I491	*Foundation Course	VAC	2-0-0	2	50	35	-	15	1
Total				28					

Note: C – Compulsory

S – Skill Enhancement

VAC- Value Added Audit Course

AEC- Ability Enhancement Course

*Credits/ Grade points or grades of these courses will not be included in SGPA/CGPA of the Semester/Programme

Scheme and Curriculum of Examinations of Three-Year Degree Programme
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester II
Session 2024-2025

Bachelor of Vocation (Artificial Intelligence and Data Science) Semester II									
Course Code	Course Title	Course Type	Credits		Marks				Examination time (in hours)
			L-T-P	Total	Total	Ext.		CA	
						L	P		
BVIL-2421/ BVIL-2031/ BVIL-2431	Punjabi (Compulsory)/ ¹ Basic Punjabi/ ² Punjab History and Culture	C	4-0-0	4	100	70	-	30	3
BVIM-2102	Communication Skills in English	AEC	3-0-1	4	100	50	20	30	3+3
BVIL-2113	Computational Problem Solving-II	S	3-0-0	3	100	70	-	30	3
BVIL-2114	Mathematical Foundation	C	2-0-0	2	50	35	-	15	3
BVIL-2115	Technical Writing	S	3-0-0	3	100	70		30	3
BVIL-2116	Data Collection and Analysis	S	2-0-0	2	50	35	-	15	3
BVIM-2117	Relational Database Management System	S	2-0-2	4	100	35	35	30	3+3
BVIP-2118	Computational Problem Solving Lab	S	0-0-4	4	100	-	70	30	3
BVII-2119	Assignment based on Skill Development	S	0-0-2	2	50	-	35	15	3
VACD-2161	*Drug Abuse: Problem, Management and Prevention (Compulsory)	VAC	2-0-0	2	50	35	-	15	3
Total				30					

Note: C – Compulsory
S – Skill Enhancement
VAC-Value Added Audit Course

* Credits/Grade points or grades of these courses will not be included in SGPA/CGPA of the Semester/Programme

Scheme and Curriculum of Examinations of Three-Year Degree Programme
Bachelor of Vocation
(Artificial Intelligence and Data Science) Semester III
Session 2024-2025

Bachelor of Vocation (Artificial Intelligence and Data Science) Semester III									
Course Code	Course Title	Course Type	Credits		Marks				Examination time (in hours)
					Total	Ext.		CA	
			L-T-P	Total		L	P		
BVIL-3111	Statistical Inference-I	C	4-0-0	4	100	70		30	3
BVIL-3112	Data Mining and Data Warehousing	S	4-0-0	4	100	70		30	3
BVIL-3113	Data Processing and Visualization	S	2-0-0	2	50	35		15	3
BVIL-3114	Workplace Management	C	2-0-0	2	50	35		15	3
BVIL-3115	Machine Learning-I	S	3-0-0	3	100	70		30	3
BVIP-3116	Lab on Data Processing and Visualization	S	0-0-2	2	50		35	15	3
BVIP-3117	Data Storytelling and Presentation	C	0-0-4	4	100		70	30	3
BVIP-3118	Lab on Machine Learning-I	S	0-0-3	3	100		70	30	3
BVII-3119	Assignment based on Visual Insights	S	0-0-4	4	100		70	30	3
VACG-3531	*Gender Sensitization	VAC	2-0-0	2	50	35		15	1
Total				30					

Note: C – Compulsory
S – Skill Enhancement
VAC-Value Added Audit Course

*Credits/ Grade points or grades of these courses will not be included in SGPA/CGPA of the Semester/Programme

Scheme and Curriculum of Examinations of Three-Year Degree Programme
Bachelor of Vocation
(Artificial Intelligence and Data Science) Semester IV
Session 2024-2025

Bachelor of Vocation (Artificial Intelligence and Data Science) Semester IV									
Course Code	Course Title	Course Type	Credits		Marks				Examination time (in hours)
			L-T-P	Total	Total	Ext.		CA	
						L	P		
BVIL-4111	Statistical Inference-II	C	4-0-0	4	100	70	-	30	3
BVIL-4112	Applied Statistical Programming	S	4-0-0	4	100	70		30	3
BVIL-4113	Non-Relational Databases	S	3-0-0	3	100	70		30	3
BVIL-4114	Entrepreneurship Basics	C	2-0-0	2	50	35	-	15	3
BVIP-4115	Applied Statistical Programming Lab	S	0-0-4	4	100		70	30	3
BVIP-4116	Lab on Non-Relational Databases	S	0-0-3	3	100		70	30	3
BVII-4117	Assignment based on Unstructured Data Analysis using MongoDB and Python	S	0-0-4	4	100		70	30	3
VACE-4221	*Environmental Studies (Compulsory)	VAC	1-0-1	2	50	20	15 (Project work)	15	3
Total				26					

Note: C – Compulsory
S – Skill Enhancement
VAC-Value Added Audit Course

*Credits/ Grade points or grades of these courses will not be included in SGPA/CGPA of the Semester/Programme

Scheme and Curriculum of Examinations of Three-Year Degree Programme
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester V
Session 2024-2025

Bachelor of Vocation (Artificial Intelligence and Data Science) Semester V									
Course Code	Course Title	Course Type	Credits		Marks				Examination time (in hours)
			L-T-P	Total	Total	Ext.		CA	
						L	P		
BVIL-5111	Research Methodology	C	3-0-0	3	75	60	-	15	3
BVIL-5112	Principles of Artificial Intelligence	C	4-0-0	4	100	80		20	3
BVIL-5113	Machine Learning- II	S	4-0-0	4	100	80		20	3
BVIL-5114	Soft Computing	S	4-0-0	4	100	80		20	3
BVIL-5115	Project Management	C	3-0-0	3	75	60		15	3
BVIP-5116	Lab on Machine Learning-II	S	0-0-4	4	100		80	20	3
BVII-5117	Assignment based on Predictive Analysis	S	0-0-6	6	100		80	20	3
SECI-5541	Innovation, Entrepreneurship and Creative Thinking	AC	2-0-0	2	25	20	-	5	1
Total				30					

Note: C – Compulsory

S – Skill Enhancement

AC- Audit Course

* Credits/Grade points or grades of these courses will not be included in SGPA/CGPA of the Semester/Programme

Scheme and Curriculum of Examinations of Three-Year Degree Programme
Bachelor of Vocation (Artificial Intelligence and Data Science) Semester VI
Session 2024-2025

Bachelor of Vocation (Artificial Intelligence and Data Science) Semester VI									
Course Code	Course Title	Course Type	Credits		Marks				Examination time (in hours)
					Total	Ext.		CA	
			L-T-P	Total		L	P		
BVIL-6111	Introduction to Blockchain Technology	C	4-0-0	4	100	80	-	20	3
BVIL-6112	Deep Learning	C	4-0-0	4	100	80		20	3
BVIL-6113	Business Intelligence	C	4-0-0	4	100	80		20	3
BVID-6114	Industrial Training	S	0-0-18	18	250	-	250	-	
Total				30					

Note: C – Compulsory

S – Skill Enhancement

* Credits/Grade points or grades of these courses will not be included in SGPA/CGPA of the Semester/Programme

Item: B.Voc. AI 6: 2025:4

To approve the Examiners and Evalutator for

B.Voc.(ArtificialIntelligenceandDataScience)(Semester I, II,III, IV, V & VI)

The house approved the Examiners and Evaluatortapproved for B.Voc. (Artificial Intelligence and Data Science) Sem-I, II, III, IV, V & VI for the session 2025-26.

After discussing all the Agendas, the BOS meeting was summed up by Dr. PardeepArora and Vote of Thanks were given.

Dr. PardeepArora

Head,Department of Artificial Intelligence and Data Science