

SCHOOL OF ENGINEERING & TECHNOLOGY

COURSE FILE

Program: Computer Science Engineering

Course Code: CSE4006 Course Title: Blockchain Module Semester: VI

Session: 2021-202

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1. Course Details

Course Code: CSE4006Course Title: BlockchainModule/Semester: VI

• **Session:** 2021-202

2. Vision, Mission of the University

Vision

BML Munjal University seeks to nurture ethical leaders who are skilled, knowledgeable and have the life skills required for leading their organizations to success. The university shall seek the advancement and dissemination of practically oriented knowledge benchmarked with the best global standards.

Mission

BML Munjal University aims to be a leading university for the quality and impact of its teaching, research and linkages with major stakeholders. The focus of the university is to find creative solutions to problems through application of knowledge. The university aims to create a talented community of students and faculty who excel in teaching, learning and research, in a creative and stimulating environment. The university will collaborate with other institutions for development of science, technology and arts in the global context.

3. Graduate Attributes

- Acquire and apply practical understanding of discipline knowledge.
- Demonstrate a sense of ethics and display excellence in both personal and professional life.
- Exhibit problem solving, critical thinking skills and investigative capability to address real world problems.
- Manifest leadership qualities and work effectively in teams across globally diverse environments.
- Be a lifelong learner with an entrepreneurial mindset to innovate in the constantly changing global scenario.
- Possess a strong sense of inquiry and design innovative solutions for positive societal impact.
- Be effective communicators and possess an empathetic outlook.

4. Vision, Mission of the School

Vision of School:

To be amongst the leading engineering schools of the country recognized globally for excellence in teaching and research with focus on experiential learning, innovation and entrepreneurship.

Mission of School:

Providing high-quality learning experience to our students, preparing them to be global leaders, and contributing to the development of society through research, innovation, and entrepreneurship.

Creating an inclusive and diverse learning environment that fosters creativity, critical thinking, and ethical values.

Collaborating with industry, government, and other institutions to address complex societal challenges and promote sustainable development.

5. PEOs and POs & PSOs of the Program

Program Educational Objectives (PEO):

PEO 1: Identify real-life problems and develop creative and innovative hardware/software-based solutions.

PEO 2: Achieve professional development through self-learning to adapt to the technological changes in the ever changing field of computing.

PEO 3: Engage in life-long learning of computer engineering technologies, critical thinking and continuous ingenuity and apply them in real-life applications.

PEO 4: Accomplish leadership roles by imbibing ethics and professionalism with emphasis on sustainable development of the society.

Program Outcomes (PO):

PO1: Apply the foundational concepts of mathematics, science and computer engineering to find novel solutions for complex real-life engineering problems.

PO2: Identify, formulate, review literature and analyze complex computer engineering problems reaching substantiated conclusions and derive a coherent logic that can be implemented by computers.

PO3: Design analytical and computational models for solving complex engineering problems giving due consideration to issues related to public health and safety, cultural and societal constraints, and environmental concerns.

PO4: Use research-based knowledge, methods, tools and techniques for data collection, designing digital computing systems, analyzing and interpreting the results to provide substantiated conclusions.

PO5: Use appropriate tools to model complex computer engineering problems through identification of the limitations and creating solutions to predict the real-world phenomena.

PO6: Use appropriate contextual knowledge of computer engineering to review and assess societal, health, legal, cultural, safety and contemporary issues and rationalize the ensuing responsibilities towards the society.

PO7: Adopt computer engineering practices in congruence with societal need, understand the working practices and its impact on natural resources for sustainable development.

PO8: Use ethical principles to pursue excellence in developing computer engineering systems and behave appropriately to develop a reliable and trustworthy relationship with others.

PO9: Function effectively as a reliable and responsible individual, and as a member or leader in diverse computer engineering teams, and in multidisciplinary settings, thereby placing team goals ahead of individual interests.

PO10: Communicate effectively by capturing the desirable computer system requirements for preparation of specification documents, write clear and concise report such as laboratory files, research papers, thesis, and presentation materials.

PO11: Demonstrate knowledge of computer engineering and management principles for the completion of individual or group projects in multidisciplinary environments.

PO12: Recognize the evolving technological changes and engage as an independent and life-long learner

in both computing and non-computing fields.

Program Specific Outcomes (PSO):

PSO1: Identify applicable tools and techniques related to data science practice such as data collection, cleaning, analysis, modelling, evaluation and result interpretation and apply them for deriving hidden and meaningful patterns for appropriate actionable insights.

PSO2: Develop intelligent systems for various real-life domains like healthcare, transportation, finance etc. using Artificial Intelligence methodologies.

PSO3: Understand the foundational concepts and techniques to protect computing systems against constantly evolving cybersecurity threats and analyze security breaches and violations of cyber systems and networks to provide appropriate solutions.

PSO4: Design effective security systems to mitigate risks, threats and vulnerabilities for protecting the organizations against cyber threats.

6. Course Description and its objectives

BML Munjal University seeks to nurture ethical leaders who are skilled, knowledgeable and have the life skills required for leading their organizations to success. The university shall seek the advancement and dissemination of practically oriented knowledge benchmarked with the best global standards. BML Munjal University aims to be a leading university for the quality and impact of its teaching, research and linkages with major stakeholders. The focus of the university is to find creative solutions to problems through application of knowledge. The university aims to create a talented community of students and faculty who excel in teaching, learning and research, in a creative and stimulating environment. The university will collaborate with other institutions for development of science, technology and arts in the global context.

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7. Course Outcomes and CO-PO Mapping

Course Outcomes:

CO1:

CO/PO Mapping:

Course Outcomes (CO)	CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CO1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

8. Detailed Session wise Plan & Course Syllabus

Sr. No.	Content	СО	Sessions
1	Topic Name with Details	1	1

Learning Resource	S
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Text Books:

Reference Links:

9. Weekly Timetable

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:15-10:10					
10:15-11:10					
11:15-12:10					
12:15-13:10					
13:15-14:10					
14:15-15:10					
15:15-16:10					
16:15-17:10					
17:15-18:10					

10. Registered Students List

Sr.No	Unique Id.	Student Name
1	230768	Akshat Rawat
2	230972	Arepalli Yagnesh Sri Sai
3	240714	Karan Singh
4	230764	Vivek
5	230765	Samarth Sharma
6	230766	Shubham Patel
7	230915	Harsh Yadav
8	230844	Shruti Negi
9	230864	Karmanya Bhalla
10	230872	Diksha Balodi
11	230937	Ajay Teli

11. Details of Internal Assessment, weightages and remarks

Component	Weightage	Evaluationweek	Remarks
324234fdvdf	342	r4	343

13. Weak/Medium/Advance Learner Identification on the basis of Mid-Semester/Internal Assessment(s)

Learner Categories Summary for Partial Semester

Learner Category	Number of Students
Advanced Learners	0
Medium Learners	11
Low Performers	0

Student Learning Classification for Partial Semester

Student Name	Category
Akshat Rawat	Medium Learner
Arepalli Yagnesh Sri Sai	Medium Learner
Karan Singh	Medium Learner
Vivek	Medium Learner
Samarth Sharma	Medium Learner
Shubham Patel	Medium Learner
Harsh Yadav	Medium Learner
Shruti Negi	Medium Learner
Karmanya Bhalla	Medium Learner
Diksha Balodi	Medium Learner
Ajay Teli	Medium Learner

15. Interventions made for Low performers and advanced learners, highlighting initiatives taken for student improvements (retest, resubmissions etc.)

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17. Details of Marks in all components up to the End Semester including the grades

Sr.No	Unique Id.	Student Name	Project Evaluation Out of (60)	End term examination Out of (40)	Grading
1	230768	Akshat Rawat	23.0	28.75	С
2	230972	Arepalli	0.0	0.0	F
		Yagnesh Sri Sai			
3	240714	Karan Singh	29.0	31.5	В
4	230764	Vivek	26.0	31.5	C+
5	230765	Samarth	36.0	44.75	А
		Sharma			
6	230766	Shubham Patel	0.0	2.75	F
7	230915	Harsh Yadav	26.0	31.5	C+
8	230844	Shruti Negi	26.0	40.25	B+
9	230864	Karmanya	33.0	40.75	Α
		Bhalla			
10	230872	Diksha Balodi	26.0	38.25	В
11	230937	Aiav Teli	33.0	38.75	B+

18. Identification of advance learners and low performers conducted at the end of the semester

Learner Categories Summary

Learner Category	Number of Students
Advanced Learners	0
Medium Learners	11
Slow Learners	0

Student Learning Classification

Student Name	Category				
Akshat Rawat	Medium Learner				
Arepalli Yagnesh Sri Sai	Medium Learner				
Karan Singh	Medium Learner				
Vivek	Medium Learner				
Samarth Sharma	Medium Learner				
Shubham Patel	Medium Learner				
Harsh Yadav	Medium Learner				
Shruti Negi	Medium Learner				
Karmanya Bhalla	Medium Learner				
Diksha Balodi	Medium Learner				
Ajay Teli	Medium Learner				

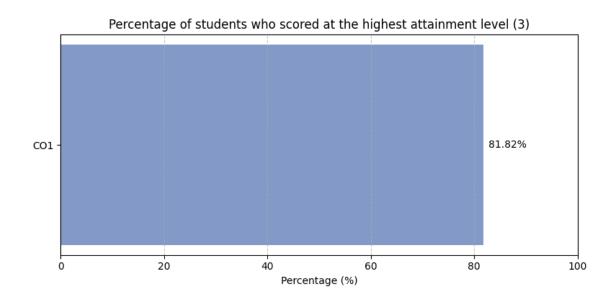
19. Attendance Report

Sr.No	Unique Id.	Student Name	Attendance		
1	230768	Akshat Rawat	78.72		
2	230972	Arepalli Yagnesh Sri Sai	76.60		
3	240714	Karan Singh	92.86		
4	230764	Vivek	85.42		
5	230765	Samarth Sharma	89.58		
6	230766	Shubham Patel	79.17		
7	230915	Harsh Yadav	87.50		
8	230844	Shruti Negi	87.50		
9	230864	Karmanya Bhalla	83.33		
10	230872	Diksha Balodi	87.50		
11	230937	Ajay Teli	89.58		

20. CO attainment analysis with the reflection on feedback on course outcomes

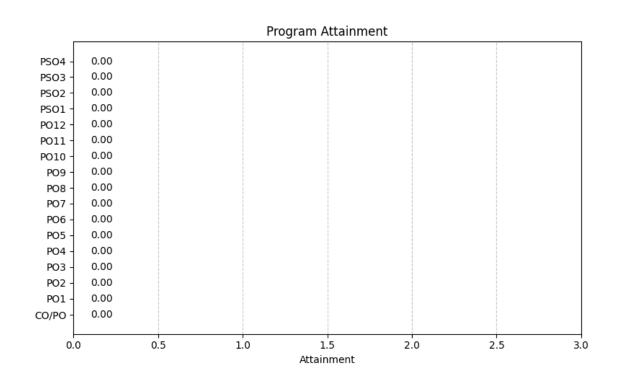
CO Attainment Summary

Course Outcomes	CO1				
Weights	100.00%				
No. of students who scored at the	9				
highest attainment level (3)					
Percentage of students who scored	81.82%				
at the highest attainment level (3)					
Attainment Level	3				
Overall Course Attainment	3.0000				



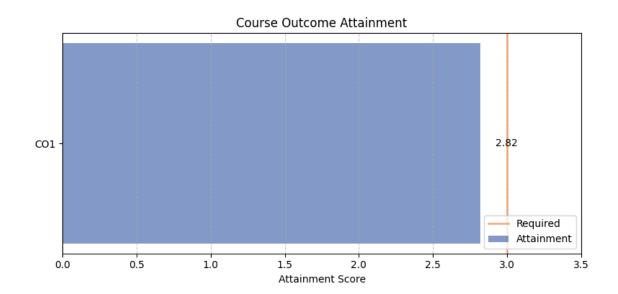
Program Attainment

Program	CO/P	РО	РО	РО	РО	PO5	PO6	PO7	PO8	PO9	PO1	PO1	PO1	PSO	PSO	PSO	PSO
Outcomes	0	1	2	3	4						0	1	2	1	2	3	4
Program	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Attainmen		0	0	0	0	0	0	0	0	0							
t																	



Student-wise CO Achievement

NAME	CO1 Score
Akshat Rawat	3
Arepalli Yagnesh Sri Sai	2
Karan Singh	3
Vivek	3
Samarth Sharma	3
Shubham Patel	2
Harsh Yadav	3
Shruti Negi	3
Karmanya Bhalla	3
Diksha Balodi	3
Ajay Teli	3
Average	2.82



21. Feedback (class committee or otherwise) and corrective actions (if any)

Quantitative Feedback:

Average Rating: 0.00/5