NH-09, Adhyatmik Nagar, Near Dasna, Distt: Ghaziabad, Uttar Pradesh Website: https://www.imsec.ac.in

SUPPORTING DOCUMENTSAQAR: 2022-23

1.1.2 The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

Attachment: Supporting Document



Department of Computer Science & Engineering

Adherence Report for Even Semester (2022-23) – III & IV Year

S. No.	Event	Date	Adherence Date	Adherence Report	Remarks
1	Course Allocation, Faculty load calculation and projection of requirement of resources	15-Jan-23	19-Jan-23	OK	By HOD
2	Subject Allotment	20-Jan-23	01-Feb-23	ОК	By HOD & Time Table Committee
3	Department Time Table for III & IV Year	27-Jan-23	07-Jan-23	Pre-Poned	By Time Table Committee
4	Finalisation of LAB Manual	02-Feb-23	15-Feb-23	Post-Poned	By Lab Manual coordinator
5	Registration of Third & Final Year Students	03-Feb-23	03-Feb-23	ОК	BY Registrar
6	Commencement of Classes for IV year of B.Tech	06-Feb-23	06-Feb-23	ОК	By HOD
7	Departmental Meeting - I	07-Feb-23	09-Feb-23	OK	BY HOD
8	Department Academic Calendar Presentation	10-Feb-23	25-Feb-23	Post-Poned	By HOD & PAC Member
9	NBA Meeting (Review of criteria of 1 & 2)	10-Feb-23	27-Jan-23	Pre-Poned	By HOD & NBA Coordinator & PAC Committee
10	Alumni Sports Meet	11-Feb-23	11-Feb-23	ОК	By Alumni Committee
11	Auditing of Lecture Plan / CO-PO- PSO mapping / course file for Third & Final Year	13-Feb-23	10-Feb-23	ОК	By NBA & Module Coordinator
12	Module Coordinator Meeting with HOD	13-Feb-23	27-Jan-23	Pre-Poned	BY HOD
13	Alumni Coordinator meeting with HOD	14-Feb-23	14-Feb-23	ОК	By HOD
14	Result Analysis committee meeting with HOD	20-Feb-23	20-Feb-23	ОК	By HOD
15	Project Review - I	20-Feb-23	20-Feb-23	OK	By Project Coordinator and Project Module Coordinator
16	Project Coordinator meeting with HOD	21-Feb-23	21-Feb-23	ОК	By HOD
17	Mentors Meeting	27-Feb-23	08-Feb-23	Pre-Poned	By Mentoring Coordinator
18	Departmental Meeting - II	01-Mar-23	25-Feb-23	OK	By HOD
19	First Audit by Module Coordinator	10-Mar-23	25-Mar-23	Post-Poned	by NBA & Module Coordinator
20	Convocation Batch 2022	19-Mar-23	19-Mar-23	ОК	Dean (Academic) & Team Members



21	Project Review - II	20-25 Mar-23	20-23 Mar-23	ОК	By Project Coordinator and Project Module Coordinator
22	Detention list of CT-1 Students	23-Mar-23	25-Mar-23	ОК	By Class Coordinator
23	Letters of detained students to be send to parents	25-Mar-23	25-Mar-23	ОК	By Attendance Review Committee
24	Attendance and course coverage send to Dean Academic	25-Mar-23	25-Mar-23	ОК	By HOD
25	Sessional – I Test	27 Mar-03 Apr 23	27 Mar-03 Apr 23	ОК	BY Exam Cell Committee
26	VIBGIOR (Techno Cultural Event)	07-08 Apr-23	04-05 May-23	Post-Poned	Event Coordinator
27	Last Date of showing evaluated answer sheet to students & compilation of marks & uploading CT-1 marks on ERP	10-Apr-23	07-Apr-23	ОК	By all faculty
28	Sending CT-1 Marks to AMC	10-Apr-23	08-Apr-23	ОК	By HOD
29	Departmental Meeting - III	10-Apr-23	25-Apr-23	Post-Poned	By HOD
30	Project Review - III	10-Apr-23	08-09 May-23	Post-Poned	By Project Coordinator and Project Module Coordinator
31	Students, parents meeting with HOD's (for showing student attendance & weak student performance in CT-I)	12-Apr-23	12-Apr-23	ОК	By Attendance Review Committee
32	Industrial Visit	14-Apr-23	19-Apr-23	ОК	By IIC
33	Internal Lab Exam & Lab Viva-2	21-Apr-23	08-10 May-23	Post-Poned	By Subject Faculty
34	Second Audit by module coordinator	27-Apr-23	24-28 May-23	Post-Poned	By Module Coordinator
35	Letters of detained students to be send to parents	28-Apr-23	13-May-23	Post-Poned	By Attendance Review Committee
36	Attendance and course coverage send to Dean Academic	28-Apr-23	25-Apr-23	ОК	BY HOD
37	Detention list of CT-II Students	28-Apr-23	13-May-23	Post-Poned	By Class Coordinator
38	Third Mentor Meeting	28-Apr-23	28-Apr-23	ОК	By Mentoring Coordinator
39	Student Feedback-II	28-29 Apr-23	03-May-23	ОК	By NBA Coordinator
40	Sessional – II Test	01-04 May-23	15-19 May-23	Post-Poned	By Exam Cell Committee



Department of Computer Science & Engineering

			_		
41	Departmental Meeting - IV	08-May-23	08-May-23	ОК	By HOD
42	Last Date of showing evaluated answer sheet to students & compilation of marks & uploading CT-2 marks on ERP	09-May-23	24-May-23	Post-Poned	By all faculty
43	Sending CT-2 Marks to AMC	09-May-23	25-May-23	Post-Poned	By HOD
44	Students, parents meeting with HOD's (for showing student attendance & weak student performance in CT-II)	10-May-23	25-May-23	Post-Poned	By HOD
45	Third Audit by module coordinator	10-May-23	12-May-23	ОК	by NBA & Module Coordinator
46	Submission of Sessional marks and answers sheet to the exam cell	30-May-23	17-20 Jun-23	Post-Poned	By NBA Coordinator
47	NBA Meeting (Review of criteria of 7)	04-Jun-23	04-Jun-23	ОК	By HOD & NBA Coordinator & PAC Committee
48	Calculation of internal marks	12-Jun-23	08-Jun-23	ОК	By Respective class Coordinator
49	Publication of Departmental Newsletter	20-Jun-23	27-Jun-23	ОК	By News Letter Committee
50	University End semester Examination			30	As per university announcement
51	End semester practical examinations				As per university Announcement

GHAZIABAD



Department of Computer Science & Engineering

Adherence Report for ODD Semester (2022-23) (II Year)

S. No.	Event	Actual Date	Adherence Date	Adherence Report	Remarks
1	Course Allocation, Faculty load calculation and projection of requirement of resources	15-Jun-22	22-June-22	ОК	By HOD
2	Subject Allotment	22-Jul-22	27-June-22	ОК	By HOD & Time Table Committee
3	Finalisation of LAB Manual	26-Jul-22	07-July-22	Delayed	By Lab Manual coordinator
4	Department Academic Calendar Presentation	04-Aug-22	22-Aug-22	Delayed	By HOD & PAC Member
5	Registration of Second Year	21-Aug-22	16-Aug-22	ОК	BY Registrar
6	Department Time Table for II Year	22-Aug-22	26-Aug-22	ОК	By Time Table Committee
7	Commencement of Classes for II year	29-Aug-22	29-Aug-22	ОК	By HOD
8	Auditing of Lecture Plan / CO-PO- PSO mapping / course file for II Year	31-Aug-22	01-Sep-22	OK	By NBA & Module Coordinator
9	Module Coordinator Meeting with HOD	01-Sep-22	25-Aug-22	ОК	BY HOD
10	Letters of detained students to be send to parents	24-Sep-22	24-Sep-22	OK	By Attendance Review Committee
11	Student Feedback	26-Sep-22	26-Sep-22	ОК	By NBA Coordinator
12	Attendance and course coverage send to Dean Academic	24-Sep-22	24-Sep-22	ОК	By HOD
13	Detention list of CT-1 Students	26-Sep-22	26-Sep-22	ОК	By Class Coordinator
14	Sessional – I Test	28-30 Sep-22	28-30 Sep-22	ОК	BY Exam Cell Committee
15	Uploading of Sessional Marks on ERP	03-Oct-22	03-Oct-22	ОК	By all faculty
16	Students, parents meeting with HOD's	24-Nov-22	24-Nov-22	ОК	By Attendance Review Committee
17	Letters of detained students to be send to parents	30-Dec-22	30-Dec-22	OK	By Attendance Review Committee
18	Student Feedback	29-Dec-22	29-Dec-22	ОК	By NBA Coordinator

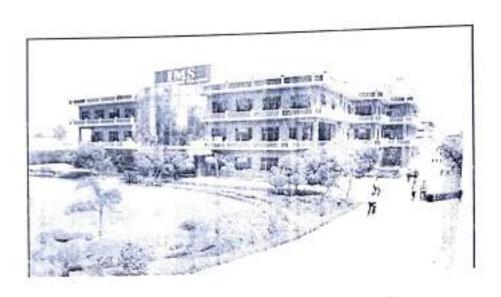


19	Attendance and course coverage send to Dean Academic	29-Dec-22	29-Dec-22	ОК	BY HOD
20	Detention list of CT-II Students	29-Dec-22	29-Dec-22	ОК	By Class Coordinator
21	Sessional – II Test	2-4 Jan-23	2-4 Jan-23	ОК	By Exam Cell Committee
22	Uploading of Sessional Marks on ERP	09-Jan-23	09-Jan-23	ОК	By all faculty
23	Industrial Visit	01-Dec-22	01-Dec-22	ОК	By IIC
24	Letters of detained students to be send to parents	17-Feb-23	17-Feb-23	ОК	By Attendance Review Committee
25	Student Feedback	18-Feb-23	18-Feb-23	ОК	By NBA Coordinator
26	Attendance and course coverage send to Dean Academic	18-Feb-23	18-Feb-23	ОК	BY HOD
27	Detention list of CT-III Students	18-Feb-23	18-Feb-23	ОК	By Class Coordinator
28	Sessional – III Test	20-03 Mar-23	20-03 Mar-23	ОК	By Exam Cell Committee
29	Uploading of Sessional Marks on ERP	05-Mar-23	05-Mar-23	ОК	By all faculty
30	Submission of Sessional marks and answers sheet to the exam cell	13-Mar-23	13-Mar-23	ОК	By NBA Coordinator
31	Calculation of internal marks	20-Mar-23	20-Mar-23	ОК	By Respective class Coordinator
32	University End semester Examination			-/	As per university announced
33	End semester practical examinations	-		10	As per university announced



Department of Computer Science & Engineering

COURSE FILE



Faculty Name : Mr. Amit Kumar

Course Code

KCS -713

Course Name

: Cloud Computing

NBA Code

C 403

Year/Sem/Sec

: 4th/7th/CSE3,CSE4

Academic Year : 2022-2023

Email ID

: Amit.kumar3@imsec.uc.in

Mobile Number : 8603320372



Department of Computer Science & Engineering

INDEX

S.No.	Contents of Course File	Page No.
1.	Vision and Mission of the Institute	
2	Vision and Mission of the Department.	
1	POs, PSOs and PEOs	
4.	Academic Calendar of the Institute & Department	
5.	University evaluation scheme and Syllabus.	
6.	Opening Report of current Semester	
7.	Faculty Time Table	
8.	Lecture Plan	
9	Course Outcomes	
10.	CO-PO-PSO Mapping & its Justification	
11.	Student List	
12.	Question Paper CT1	
13.	Attendance of CT1 with obtained marks	
14.	Sessional Mapping with CO (CO-PO Attainment sheet)	
15.	List of Bright and weak student	
16.	Action taken for Weak Students Attach proof of action taken	
17.	Evaluated Answer Scripts (Highest/Average/Poor category) 2 from each category	
18.	Question Paper CT2	
19.	Attendance of CT2 with obtained marks	
20.	Sessional Mapping with CO (CO-PO Attainment sheet)	
21.	List of Bright and weak student	
22,	Action taken for weak students Attach proof of action taken	
23.	Evaluated Answer Scripts (Highest/Average/Poor category) 2 from each category	
24.	Question Paper CT 3	
25.	Attendance of CT3 with obtained marks	
26.	Sessional Mapping with CO (CO-PO Attainment sheet)	
27.	List of Bright and weak student	
28.	Action taken for weak students Attach proof of action taken	7
29.	Evaluated Answer Scripts (Highest/Average/Poor category) 2 from each category	
30.	Assignments / Tutorials	
31.	Sample assignment / tutorial sample 2 from each assignment / tutorial	
32.	Any innovative teaching learning practice used	
33.	Lecture Notes	
34.	Notes / Study Material for content beyond syllabus	34
35.	Last three years question papers	
36.	Model Question paper	
37	Final Marks Statement (CTI, CT2 and CT3)	
38.	File Closure (Final Attainments, Result Analysis, Feedback) - Course Review with HOD Signature	





IMS Engineering College

NH-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziahad, U.P. Tel: (0120) 4940000

Department of Computer Science & Engineering

Vision and Mission of the Institute and Department

Vision of the Institute

"To make IMS EC a leading and continuously evolving—educational institution that provides a transformative learning experience for its students to become global leaders and also engage all stakeholders in the process of achieving its goals."

Mission of the Institute

- To imbibe in the students of IMSEC a desire for lifelong learning.
- To develop and use pedagogy based on participative and experiential learning.
- · To undertake research, projects and consultancy assignments.
- To inculcate in its students the qualities of Leadership, Professionalism, and Technical Competence for achieving sustainable development.
- To enable students to become socially responsible individuals by inculcating in them a sense
 of human values and concern for the environment.

Vision of the Department

To provide globally competent professionals in the field of Computer Science & Engineering embedded with sound technical knowledge, aptitude for research and innovation with ethical values to cater to the industrial & societal needs.

Mission of the Department

M1: To provide quality undergraduate education in both the theoretical & applied foundations of Computer Science Engineering.

M2: Conduct research to advance the state of the art in Computer Science & Engineering and integrate the research results as innovations.

M3: To inculcate team building skills and promote life-long learning with a high societal and ethical values.

Vision:

To make IMSEC an Institution of Excellence for empowering students through technical education coupled with incorporating values and developing engineering acumen for innovations and leadership skills for the betterment of society.

Mission:

- To promote academic excellence by continuous learning in core and emerging Engineering areas using innovative teaching and learning methodologies.
- To inculcate values and ethics among the learners.
- To promote industry interactions and produce young entrepreneurs.
- To create a conducive learning and research environment for life-long learning to develop the students as technology leaders and entrepreneurs for addressing societal needs.



Department of Computer Science & Engineering

Program Specific Outcomes (PSOs)

PSO1: To apply standard software engineering practices & strategies in real-time software project development

PSO2: To apply latest programming languages in creating innovative career opportunities.

Program Educational Objectives (PEOs)

Graduate Will:

PEO1: Possess knowledge to enable continued professional development.

PEO2: Engage in life-long learning to foster personal & organization growth.

PEO3: Work productively as successful professionals in diverse career paths.

PEO4: Effectively communicate ideas to promote collaboration in accordance with societal standards & ethical practices.



Department of Computer Science & Engineering

Program Outcomes (POs)

S. No	Program Outcomes / Program Specific Outcomes
PO1.	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2.	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3.	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4.	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5.	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6.	The engineer and society: apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7.	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8.	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9.	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10.	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11.	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
2012.	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological

ACADEMIC CALENDAR (As per AKTU) (ODD SEM: 2022 - 23) IMS ENGINEERING COLLEGE, GHAZIABAD

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Prof. (Dr.) Vikram Bail Director



DR. A.F. I. ARDEE KALAM TO DISICAL UNIVERSITY, CITAR PRADESH Jankapurum Vistar, Sector 11., Strapur Bood, Lucturois, 226831

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	Particulars	Hald Sentence	Even Semester
		August 16, 2022 All VII & 1X Scott our Horboris	Fig. 21, 2023 for 190Evcept B. Lee B.Phorma & MRAS, VI. VIII & 5 Streetly studyed
41	Commencement of Classes season 2022-23	Sep 1, 2003 at III, V Scinester students (EXCEPT-MBA)	Erh. 15, 1923 for All II, IV (B. Fech, B. Phorma & MEA3 Semester shades
		Oes. 16, 2022 All III semester MBA cremes	
12	Law only of fresh advances AND Contrary recent of Classes for First VEAR and neurity	Der 257, 3037	_
03	Lest date of a considere advisorier for of stadents to University (for newly admitted stadent)	Oct 30*, 2022	
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0e	Loss date of submitting Sessional marks of Theory & Practical to University	716-73, 2021	Alay 25, 3023 for All Enva Semester
		Dec. 15, 2022 to Jan. 10, 2023 For all III (Except B Tech, B. Pharet & MBA), V. Villand IX Someonet	
07	End Serveser Theory Examination	Jan. 24, 2833 on Feb.10 2023, For all I Somester and III semesters of B Toch, B. Pharm & MGA	15 May, 2023 to 05 June, 2023 for All Even Sementers
		Dec. 09,2022 to Doc 14, 2022 For all III. (Except B. Tech, B. Pharm & MBA), V, VIII and IX Somester	
08	End Scriester Practical Exprenation (PE)	Fcb. 07, 2023 to Fob 13, 2023; For all 1 Somester and III somester (B. Tock, B. Pharm & MBA)	June 01, 2023 to June 10, 2013 for ABEven Semesters
		Jan 16, 2023 For all III (Except 8 Tech, B.) Pharma & MSA), V,VS and IX Semision	
19		Feb. 16, 2023 For all I Sommiscrand III kanescrand B Tech, B Hearns & MBA	June 15, 2023 for All Even Semester
		Dec. 24,3603 to Jan. 23, 2025 For all III (Except B. Tech, B. Phane & MBALV, VIII and IX Sensester	
Ď	Evaluation of Answer sheets	For all I Seriester and III of B. Fech. B. Pares & MBA	34sy 25, 3023 to June 20, 2023 for AllEvon Semesters
	New rise Training/Instrudip		June 15, 2023 to July 15, 2023
	Warter Vacational Summer Vacation	Jan. 11, 2023 to Jun. 20, 2023	June 16, 2023 to July 31, 2023
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*As per the Administrace recentle

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> (Nami La Singa) Beginten



Department of Computer Science & Engineering

Department Academic Calendar for ODD Semester (2022-23)

	5.	Event	T		
	No	71110	Date	Day	Remarks
	1	Course Allocation, Faculty load calculation and projection of requirement of resources	15-Jun-2	Wednesd 2	ey By HOD
		N. C. act Allotment	22-101-2	Friday.	By HOD & Tim Table Committee
	3	f alisation of LAB Manual	26-Jul-22	Tuesday	By Lab Manual coordinator
	4	Registration of Final Year Students	01-Aug-2	Monday	BY Registrar
	5 1	Department Academic Calendar Fresentation	04-Aug-22	Thursday	By HOD & PAC Member
-		Department Time Table for IV Year	10-Aug-22	Wednesda	By Time Table Committee
3		Commencement of Classes for IV year of B.Tech	16-Aug-22	Tuesday	Ву НОО
5	+	Occarimental Meeting - (18-Aug-22	Thursday	ву ноб
5		vaciting of Lecture Plan / CO-PO-PSO happing / course file for Final Year	19-Aug-22	Friday	By NBA & Module Coordinator
13	N	es stration of Second Year & Third ear Students	21-Aug-22	Sunday	8Y Registrar
11	10.6	esartment Time Table for II Year &III	22-Aug-22	Monday	By Time Table Committee
2	21	A Meeting (Review of criteria of 1&	24-Aug-22	Wednesday	By HOD & NBA Coordinator & PAC Committee
13	Fre	ect Synopsis Submission	25-Aug-22	Thursday	By Project Coordinator
4		AC Meeting (Progress Meeting)	26-Aug-22	Friday	By HOD & NACC Coordinator
S	III A	nimencement of Classes for II year& ear of E. Tech	29-Aug-22	Monday	Ву НОО
	ma. Yes		31-Aug-22	Wednesday	By NBA & Module Coordinator
	HOT	fule Coordinator Meeting with	01-Sep-22	Thursday	BY HOD



	18 Alumni Coordinator meeting with HOD	01-5en-22	Thursday	By HOD
Ī	19 Result Analysis committee meeting with HOD	02-5ep-22	Feidau	ву нор
	20 Industrial / Mini Project Coordinator meeting with HOD	02-Sep-22	Eriday	By HOD
2	Project Coordinator meeting with HOD	05-Sep-22	Monday	By HOD
2	22 Departmental Meeting 11	05-Sep-22	Monday	ву нор
2	3 Orientation of Technical Club	07-Sep-22	Wednesday	By Technical Event Coordinator
24	PAC Meeting	10 Sep-22	Saturday	By HOD & PAC Members 1
25	CSI & IEEE Faculty In charge meeting with HOD	15-Sep-22	Thursday	BY HOD
25	First Mentors Meeting	16-Sep-22	Friday	By Mentaring Coordinator
- 27	Letters of detained students to be send to parents	19-Sep-22	Monday	By Attendance Review Committee
28	First Audit by Module Coordinator.	19-Sep-22	Monday	by NBA & Module Coordinator
29	Student Feedback	19-Sep-22	Monday	By NBA Coordinator
30	Attendance and course coverage send to Dean Academic	20-Sep-22	Tuesday	ву.ноо
31	Detention list of CT-1 Students	21-Sep-22_	Wednesday	By Class Coordinator
32	DAC Meeting	24-Sep-22	Saturday	BY HOD & DAC Members
33	Sessional – I Test	22-24, Sep- 2022	Thu-Sat	BY Exam Cell Committee
34	Uploading of Sessional Marks on ERP	27-5ep-22	Tuesday	By all faculty
35	Project Review - I	08-Oct-22	Saturday	By Project Coordinator and Project Module Coordinator
	Second Mentors Meeting	08-Oct-22	Saturday	By Mentoring Coordinator

37	NBA Meeting (Review of criteria of 3& 4)	20-Oct-22	Thursday	By HOD & NBA Coordinator & PAC Committee
38	Departmental Meeting - III	21-Oct-22	Friday	By HOD
39	HOD's	22-0(1-22	Saturday	By Attendance Review Committee
40	Second Audit by module coordinator	28-Oct-22	Friday	By Module Coordinator
41	Letters of detained students to be send to parents	28-Oct-22	Friday	By Attendance Review Committee
47	Student Feedback	28-Oct-22	Friday	By NBA Coordinator
43	Attendance and course coverage send to Dean Academic	29-Oct-22	Saturday	BY HOD
44	Detention list of CT-II Students	29-Oct-22	Saturday	By Class Coordinator
45	Sessional – II Test	31-10-2022, 1&2 Nov. 2022	Mon-Wed	By Exam Cell Committee
16	Uploading of Sessional Marks on ERP	05-Nov-22	Saturday	By all faculty
47	Industrial Visit	+ 05-Nov-22	Saturday	Bylic
18	Third Mentor Meeting	10-Nov-22	Thursday	By Mentoring Coordinator
19	Project Review - II	12-Nov-22	Saturday	By Project Coordinator and Project Module Coordinator
С	Departmental Meetings IV	15-Nov-22	Juesday	Ву НОО
1	NBA Meeting (Review of criteria of 58.	17-Nov-22	Thursday	By HOD & NBA Coordinator & PAC Committee
2	Third Audit by module coordinator	24-Nov-22	Thursday	by NBA & Module Coordinator
3	Letters of detained students to be send to parents	25-Nov-22	Friday	By Attendance Review Committee
4	Student Feedback	25-Nov-22	Friday	By NBA Coordinator



Department of Computer Science & Engineering

55	Attendance and course coverage send to Dean Academic	25-Nov-22	Saturday	BY HOD
36	Detention list of CT-III Students	26 Nov-22	Saturday	By Class Coordinator
57	Sessional – III Test	28-30, Nov 2022	Mon-Wed	By Exam Cell Committee
58	Uplaceing of Sessional Marks on ERP	03-Dec-22	Saturday	By all faculty
59	Publication of Departmental Newsletter	05-Dec-22	Monday	Đy
60	Submission of Sessional marks and answers sheet to the exam cell	07-Dec-22	Wednesday	By NBA Coordinator
61	NEA Meeting (Review of criteria of 7)	07-Dec-22	Wednesday	By HOD & NBA Coordinator & PAC Committee
62	Calculation of internal marks	09-Dec-22	Friday	By Respective class Coordinator
63	Project Review - III	10-Dec-22	Saturday	By Project Coordinator and Project Module Coordinator
54	University End semester Examination		No. of	As per university announced
Ē\$	End semester practical examinations			As per university announced

Bulledi

COMPUTER SCIENCE AND ENGINEERING/CS

B.TECH

(COMPUTER SCIENCE & ENGINEERING/CS) CURRICULUM STRUCTURE

		S	EME	STE	8- VII								
SL No.	Subject	Subject		Pretio	ds	,	Cratuat	ion Schen	ne	150110	od ester	Total	Credi
	Codes		1.	-1	P	CI	TA	Lotal	PS	TE	PE	1,700,7	
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2	KCS07X	Departmental Elective-IV	3	0	0	30	20	50		100		150	1
1	KCS0"X	Departmental Elective-V	3	0	0	30	20	50		100		150	1
4	KOUN	Open Elective-II	3	-fi	0	30	20	50		100		150	7
٥	KCS751A	The Department may conduct one Lab- of either of the two Electives (4 or 5) based on the elective chusen for the curriculum. The Department shall on its own prepare complete list of practical for the Lab and arrange for proper setup and conduct accordingly.	0	0	2				25		25	50	ı
0	KCS752	Mini Project or Internship Assessment*	0	0	2				50			50	t.
1	KCS753	Project	0	0	8				50		100	150	4
8.		MOOCs (Essential for Hons, Degree)				-							
П		Total	12	0	12						-	850	18

^{*}The Man Project or internship (4 - 6 weeks) conducted during summer break after VI semester and will be assessed during VII semester

SEMESTER-VIII

SL No.	Subject	Subject	1	erio		F	Saluat	ion Scher	ne		nd ester	Total	Credit
	Codes		I.	T	P	CT	TA	Total	PS	TE	PE		
0	KHUR01 KHU802	HSMC-2'/HSMC-1'	3	0	0	30	20	50		100		150	3
2	КОЕЛ8Х	Open Elective-III	3	0	0	30	20	50		100		150	3
3	KOEUKX	Opm Elective-IV	3	0	0	30	20	50		100		150	3.
4	KC5851	Project	0	0	18	-			100	-	300	400	4
3		MOOCs (Essennal for Hons, Degree)	+	-									
		Total	9	0	18	300-					-	850	18

COMPUTER SCIENCE AND ENGINEERING/CS

Departmental I lective-IX

- 1 KCS0 1 Artificial Intelligence
- 2 KCS0-2 Natural language processing
- 3 KCN0-3 High Performance Computing
- 4 Kt/S074 Cryptography and Network Security
- 5 KCSU's Design & Development of Applications
- 6 KUS0 6 Software Testing
- 7. KCS0 Distributed Systems

Departmental Elective-V

- 1 KCS078 Deep Learning
- 2 KCS076 Service Oriented Architecture
- 3 KCS*10 Quantum Computing
- 4 KCS*11 Mobile Computing
- 5 KCST12 Internet of Things
- 6 KC8713 Cloud Computing
- KCS*14 Blockchain Architecture Design

COMPUTER SCIENCE AND ENGINEERING/CS

	Cloud Computing (KCS713)	
	Course Outcome (CO) Bloom's Knowledge Le	und tier h
	At the end of course, the student will be able to understand	vei (KL)
CO	Describe architecture and underlying principles of cloud computing	К,
002	Explain need, types and tools of Virtualization for cloud.	K, K,
CO 3	Describe Services Oriented Architecture and various types of cloud services.	K2, K1
CD 4	Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing.	K2, K1
CO 5	Analyze advanced cloud technologies.	K ₃ , K ₆
	DETAILED SYLLABUS	3-1-0
Unit	Торіс	Proposed Lecture
Ü	Introduction To Cloud Computing: Definition of Cloud — Evolution of Cloud Computing — Underlying Principles of Parallel and Distributed Computing — Cloud Characteristics — Elasticity In Cloud — On-demand Provisioning.	08
11	Cloud Enabling Technologies Service Oriented Architecture: REST and Systems of Systems – Web Services – Publish, Subscribe Model – Basics of Virtualization – Types of Virtualization – Implementation Levels of Virtualization – Virtualization Structures – Tools and Mechanisms – Virtualization of CPU – Memory – I/O Devices – Virtualization Support and Disaster Recovery.	08
m	Cloud Architecture, Services And Storage: Layered Cloud Architecture Design — NIST Cloud Computing Reference Architecture — Public, Private and Hybrid Clouds — IaaS — PaaS — SaaS — Architectural Design Challenges — Cloud Storage — Storage-as-a-Service — Advantages of Cloud Storage — Cloud Storage Providers — S3.	08
IV	Resource Management And Security In Cloud: Inter Cloud Resource Management – Resource Provisioning and Resource Provisioning Methods – Global Exchange of Cloud Resources – Security Overview – Cloud Security Challenges – Software as a Service Security – Security Governance – Virtual Machine Security – IAM – Security Standards.	08
v	Cloud Technologies And Advancements Hadoop: MapReduce – Virtual Box — Google App Engine – Programming Environment for Google App Engine — Open Stack – Federation in the Cloud – Four Levels of Federation – Federated Services and Applications – Future of Federation.	08

Text books:

- Kai Hwang, Geoffrey C. Fox, Jack G. Dongarra, "Distributed and Cloud Computing, From Parallel Processing to the Internet of Things", Morgan Kaufmann Publishers, 2012.
- Rattinghouse, John W., and James F. Ransome, —Cloud Computing: Implementation, Management and Security, CRC
- Rajkuntar Buyya, Christian Vecchiola, S. ThamaraiSelvi, —Mastering Cloud Computing, Tata Megraw Hill, 2013.
- Tohy Veite, Anthony Veite, Robert Elsenpeter, "Cloud Computing A Practical Approach, Tata Megraw Hill, 2009.
- 5. George Reese: 'Cloud Application Architectures: Building Applications and Infinstructure in the Cloud: Transactional Systems for EC2 and Beyond (Theory in Practice), O'Reilly, 2009.



IMS Engineering College

NH-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziabad, U.P. Tel: (0120) 4940000

Department of Computer Science & Engineering

Opening Report

(Action Plan 2022-2023, Odd / Even Semester)

Course Name: Cloud Computing

Course Code: KCS 713

Semester / Year: 7¹¹¹/4TH

NBA Code: C 403

Faculty name(s): Mr. Amit Kumar/ Ms. Ritika Dhyani

Course Outcomes:

SLNO	DESCRIPTION	(BLOOMS TAXONOMY)
CO1(C403.1)	Describe architecture and underlying principles of cloud computing.	K3
CO2(C403.2)	Explain need, types and tools of Virtualization for cloud.	K3,K4
CO3(C403.3)	Describe Services Oriented Architecture and various types of cloud services	K2,K3
CO4(C403.4)	Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing.	K2,K4
CO5(C403.5)	Analyze advanced cloud technologies.	K3,K6

CO-PO-PSO Mapping:

	P 0	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO
CO1(C403.1)	3	2	2	1	1	1	1	1	1	1	1	2	1	1
CO2(C403.2)	3	3	3	2	3	1	1	1	1	1	1	3	2	2
CO3(C403.3)	3	3	3	2	2	1	1	1	1	1	1	2	2	2
CO4(C403.4)	3	3	3	3	1	1	1	1	1	1	1	3	3	3
CO5(C403.5)	3	3	3	3	2	1	1	1	2	1	3	3	3	3
C 403	3	2.8	2.8	2.2	1.8	1	1	1	1.2	1	1.4	2.6	2.2	2.2



IMS Engineering College

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Department of Computer Science & Engineering

Identified Curriculum Gaps: Curriculum gap found in the course when compared to "Marwadi University" for undergraduate degree courses in Engineering and Technology.

- 1. Cloud Security.
- 2. Architecture of AWS.

Action Plan for the Identified Curriculum Gaps:

- NPTEL and Coursera Lectures
- Lab Session.

Summary of Result Analysis (Internal + External): 2021-2022

Section	No. of Students <60%	% age	No. of Students >60% & <75%	%age	No. of Students >75%	% age
CSE1	8	12.3	35	53.8	22	33.8
CSE2	14	21.5	27	41.5	24	36.9
CSE3	12	18.5	32	49.2	21	32.3
CSE4	-11	17.5	24	38.1	28	44.4
Average	11.3	17.4	29.5	45.7	23.8	36.9

Innovative Learning (if any):

- Presentations
- Group Discussion
- Case Studies

Section	Sign .
CSE1	fings trast
CSE2	(hila O poren
CSE3	CH 12 108/2
CSE4	della Tool 22.
	CSE1 CSE2 CSE3

Signature of Module Coordinator

		TIMIL I	ABLE ACADEA	MESTER 7, SEC	TIME TABLE ACADEMIC SESSION 2022-23 (ODD SEMESTER) WELL-2008/2022 RTECH, 4 Vg. SEMESTER-7, SEC. CSE3, ROOM NO. 369, C-8LOCK	O. 309, C-BLO	29/08/2022 IC K		
	Period.1	Period-2	Period-3	Period-4	Period-5	Period-6	Period-7	Perind 8	Period-9
DAYTIME	8:50-09:50	09:50-10:40	10:40-11:30	11:30-12:20	12:20-01:10	01:10-02:00	02:00-02:50	02:50-03:10	03:40-04:30
	V CESTAL)	KHUZOTU	KCS071(L)	KCS 731 A (ALL	KCS 751 A (ATLABJBI NG/AN LAN		KOE076(L)	Lineary	levany Technical
NON	AM	SUG	DN	KCS 753 B2	KCS 753 B2 (Project Lab)		ASH	Esertical Action of the Control of t	sents Mentoring
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WED	KCS071(L) NG	KCS713(L) AM	KHU701(L) SUG	KOE076(L.) ASH	Soft skill (MC)	Break	Advance C Pro	Advance C Programming (AP)	
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181			Study Day					Study Day	

Cut-Codo	Subject Name	Faculty Name	1	-	0.
E25223	Cloud Computing	Mr. Amit Kumar (AM)	4	٥	
5031	Arreficial Intersection	Mr. Nitin Goyal (NG)	4	0	0
1000	Rural Development	Dr. Subhajit Ghosh(SUG)	17	0	0
ACT STATE	Vision For Furnane Society	Mr. Ashish Kumar(ASH)	7	0	٥
CS751A	Altab	Mr. Nitin Goyal (NG)/ Ms. Anamika(AN)	O	0	7-2
ecsiss	Mini Project/Internship Assessment	Ms. Ritika Dhyani (RD)/ Mr. Nitin Goyal (NG)	0	0	64
40.000	taica	Project Coordinator	0	0	2+2
50535	Soft Skill	Dr. Milan (MC)		0	0
	Advance C Programming	Ms. Anjali Patel	FI		21
	Class Coordinator	Mr. Amit Kumar			

	IMS ENGINEE	RING COLLEGE, G	LERING	15-75 I-10-		
	Department COMPLE	Connect No.	/Lenoit ID: 840332	9372/mmit kr	mar Fir inner ar in	-
	Name: Mr. Amit Kamar Designation Assistant Professor	2622-2023 OBD SEMES	TER	Semeder:	1946	
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DEFERÜENCT BOOKS:

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1 1/14 BOURS

Course No. 44.5 ship into

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IMS Engineering College

NH-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziabad, U.P. Tel: (0120) 4940000

Department of Computer Science & Engineering

Course Outcomes

Course Name: Cloud Computing Semester / Year: 7TH/4TH Course Code: KCS 713 NBA Code: C 403

Faculty name(s):Mr. Amit Kumar/Ms. Ritika Dhyani

Course Outcomes:

SLNO	DESCRIPTION	COGNITIVE LEVEL (BLOOMS TAXONOMY)
CO1(C403.1)	Describe architecture and underlying principles of cloud computing.	К3
CO2(C403.2)	Explain need, types and tools of Virtualization for cloud.	K3,K4
CO3(C403.3)	Describe Services Oriented Architecture and various types of cloud services	K2,K3
CO4(C403.4)	Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing.	K2,K4
CO5(C403.5)	Analyze advanced cloud technologies.	K3,K6

CO-PO-PSO Mapping:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO	PSO 2
O1(C403.1)	3	2	2	1	1	1	1	1	1	1	1	2	1	1
CO2(C403.2)	3	3	3	2	3	1	1	1	1	1	1	3	2	2
CO3(C403.3)	3	3	3	2	2	1	1	1	1	1	1	2	2	2
CO4(C403.4)	3	3	3	3	1	1	1	1	1	1	1	3	3	3
CO5(C403.5)	3	3	3	3	2	1	1	1	2	1	3	3	3	3
C 403	3	2.8	2.8	2.2	1.8	1	1	1	1.2	1	1.4	2.6	2.2	2.2



Department of Computer Science & Engineering

CO PO JUSTIFICATION

CO-PO	MAPPING (1/2/3)	JUSTIFICATION
C403 1 PO1	3	Basic knowledge of cloud computing is required to design architecture of cloud, that's why basic fundamentals of engineering is required. Hence, mapping is high.
C403.1 - PO2	2	Basic knowledge of cloud computing does contribute to problem analysis and formulation. Hence, mapping is moderate.
C403.1 - PO3	2	Basic knowledge of cloud computing contributes to the design and development of solution. Hence, mapping is moderate.
C403.1 - PO4	1	Basic knowledge of cloud computing contributes to the investigation of complex problems. Hence, mapping is low.
C403.1 - PO5	3	Fundamental knowledge of cloud computing is necessary to learn modern technologies. Hence, mapping is high.
C403-1 - PO6	1	Hasic knowledge of cloud computing is not assessed by societal issues, health and cultural issues. Hence, mapping is low.
C403.1 - PO7	1	Basic knowledge of cloud computing does not contribute to societal and environmental context. Hence, mapping is low.
C403.1 - PO8	1	Basic knowledge of cloud computing is not contributing to the ethical principles and professional ethics and responsibilities. Hence mapping is low.
C403.1 - PO9	1	Basic knowledge of cloud computing does not contribute to team work. Hence, mapping is low.
C403.1 - PO10	1 1	Cloud computing is not much required for effective report writing and communication skills. Hence, mapping is low.
C403.1 - PO11	1	Basic knowledge of cloud computing does not contribute to project management. Hence, mapping is low.
C403.1 - PO12	2	Knowledge of all basic concepts is always used and it can be assessed by lifelong learning. Thus, mapping is medium.
C403.1 - P501	1	Basic knowledge of cloud computing architecture is not in real- time software project development. Hence, mapping is low.
C403.1 - PSO2	1	Basic knowledge of cloud computing cannot apply latest programming languages in creating innovative career opportunities. Hence, mapping is low.
C403.2 - PO1	3	Virtualization for cloud is necessary to understand the concept of cloud computing. Hence, Mapping is high.
C403.2 - PO2	3	The concepts of virtualization and types of virtualization is assessing by problem analysis that is why mapping is high.
C403.2 - PO3	3	Analysing the concept of virtualization is required to design and development of solution. Hence, mapping is high.
C403.2 - PO4	2	Analysis of types of virtualization and tools for virtualization can be used and can investigate the conclusion of virtualization. Hence, mapping is moderate.
C403.7 - POS	3	Analysing the concept of Virtualization is necessary to learn and use modern tools and technologies. Hence, Mapping is high.
C403.2 PO6	1	Types of varianheamon is not assessed by societal issues, health and cultural issues. Hence, mapping is low

C403.2 PO7	1	Types and need of virtualization do not contribute to societal and environmental context. Hence, mapping is low.
C403.2 - PO8	1	Types and need of virtualization is not contributes to the ethical principles and professional ethics and responsibilities. Hence mapping is low.
C403.2 PO9	1	Types and need of virtualization do not contributes to team work. Hence, mapping is low.
C403.2 - PO10	i®	Types and need of virtualization is not much required for effective report writing and communication skills. Hence, mapping is low,
C403.2 - PO11	1	Types and need of virtualization does not contributes to project management. Hence, mapping is low.
C403.2 - PO12	3	Knowledge of all basic concepts of virtualization, tools of virtualization and need of virtualization is always used and it can be assessed by lifelong learning. Thus mapping is high.
C403.2 - PSO1	2	Basic knowledge of virtualization and types of virtualization is in real-time software project development. Hence, mapping is moderate.
C403.2 - PSO2	2	Virtualization can apply latest programming languages in creating innovative career opportunities. Hence, mapping is moderate.
C403.3 - PO1	3	Basic knowledge of types of cloud services is required to design the service-oriented architecture of cloud. Hence, mapping is high.
C403 3 - PO2	3	Basic knowledge of cloud services and service-oriented architecture does contribute to problem analysis and formulation. Hence, mapping is high.
C403.3 - PO3	3	Service oriented architecture of cloud computing contributes to the design and development of solution. Hence, mapping is high.
C403.3 - P04	2	Service oriented architecture and cloud service contributes to the investigation of complex problems. Hence, mapping is moderate.
C403.3 - PO5	2	Service oriented architecture is necessary to learn modern technologies. Hence, mapping is moderate.
C403.3 - PQ6	1	Service oriented architecture and cloud service is not assessed by societal issues, health and cultural issues. Hence, mapping is low.
C403.3 - PO7	1	Service oriented architecture and cloud service does not contribute to societal and environmental context. Hence, mapping is low
C403.3 PO8	1	Service oriented architecture and cloud service is not contributing to the ethical principles and professional ethics and responsibilities. Hence mapping is low
C403.3 - PO9	1	Service oriented architecture and cloud service contribute slightly to an individual as well as a team. Hence, mapping is low.
C403-3 - PO10	1	Service oriented architecture and cloud service is not much required for effective report writing and communication skills. Hence, mapping is low.



E4013 P011	1	Service oriented architecture and cloud service is no
C403.3 - PO12	2	Service oriented architecture and cloud service is no slightly to life long learning, hence it is mapped to 2.
C403 3 PSO1	2	Service offented architecture and cloud service prividers is in real-time software project development. Hence, mapping is moderate.
C403 3 - PSO2	2	Service oriented architecture and cloud service can apply latest programming languages in creating innovative career opportunities. Hence, mapping is moderate.
C403 4 - PO1	3	management cloud storage services and their providers Assess security services to solve complex engineering problems to a greater extent, thereby assigned a value of 3
C403.4 - PO2	3	with the usage of Inter cloud resources management, students will be able to formulate, identify and analyze the management and security in cloud and since analysis of cloud standards is involved thus a significant manning of 3 is invalided.
C403 4 - PO3	3	Students will be able to know global cloud exchange, cloud computing security with governance with IAM standards design and development of solutions thus a significant mapping of 3 is justified.
C403.4 - PO4	3	IAM standards is used to apply research-based knowledge to produce valid conclusions for authentication thus a significant mapping of 3 is justified.
C403.4 - PO5	1	Cloud security slightly contribute to modern tool usage, hence it is mapped to 1.
C403.4 - PO6	1	Resource management is not related at all to engineering and society, hence it is mapped to 1.
C403.4 - P07	1	Cloud security are not related to environment, hence it is mapped to 1.
C403.4 - PO8	1	Resource management slightly to an individual as well as a team, hence it is mapped to 1.
C403.4 - PO9	1	Security contributes slightly for effective communication, hence it is mapped to 1.
C403.4 - PO10	1	Resource management processing does not contribute much towards effective communication, hence it is mapped to 1
C403 4 - PO21	1	Cloud Global Exchange slightly contribute to project- management, hence it is mapped to 1.
C403.4 - PO12	3.	Inter cloud resources management cloud storage services and their providers Assess security services contribute lifelong learning, hence it is mapped to 3.
C403.4 - P501	3	Cloud Security is in real-time software project development. Hence, mapping is high.
E403.4 - PSO2	3	Cloud security and cloud provisioning and cloud global exchange can apply latest programming languages in creating innovative career opportunities. Hence, mapping is high.



C403.5 - PO1	3	This Course outcome signifies the usage of advanced cloud technologies to solve complex engineering problems to a greater extent, thereby assigned a value of 3
C403 5 PO2	3	With the usage of Mapreduce, students will be able to formulate, identify and analyze the task into small parts and assign them and since analysis of Hadrop is involved thus a significant mapping of 3 is justified.
C403.5 - PO3	3	Students will be able to know Mapreduce, Hadoop, Virtual Box design and development of solutions thus a significant mapping of 3 is justified.
C403.5 PO4	3.	Hadoop and Google app engine is used to apply research-based knowledge to produce valid conclusions for web application thus a significant mapping of 3 is justified.
C403.5 - PO5	2	Hadoop contributes to modern tool usage, hence it is mapped to
C403.5 - PO6	1	Federation is not related at all to engineering and society, hence it is mapped to 1.
C403.5 - PO7	1	Federation is not related to environment, hence it is mapped to 1.
C403.5 - PO8	1	Mapreduce and google app engine is not contributes to the ethical principles and professional ethics and responsibilities. Hence mapping is low.
C403.5 - PO9	2	Google App Engine and virtual box slightly effective for individual and team work as a member, hence it is mapped to 2
C403.5 - PO10	1	Federation does not contribute much towards effective communication, hence it is mapped to 1.
C403.5 - PO11	3	Mapreduce, Google App Engine contribute to project management, hence it is mapped to 3.
C403.5 - PQ12	3	Mapreduce, Hadoop, Google App Engine and federation contribute lifelong learning, hence it is mapped to 3.
C403.5 PSO1	3	Mapreduce, Hadoop, Google App Engine is in real-time software project development. Hence, mapping is high.
C403.5 - PSO2	3	Mapreduce, Fladoop, Google App Engine can apply latest programming languages in creating innovative career opportunities. Hence, mapping is high.



IMS Engineering College, Chaziahad Department of Computer Science Engineering List of Students 4th Year CSE3 (Odd Semester) 2022.23

S.No.	Admission ID	Roll No.	Batch	Name	Father Name	PHONE (Student)	Mobile(Parent)
-	4.1937.4.16.28	1901430100125	H	MURITANALIK	ANII. MALIK		911545AN
ří	A 1924 SEP 163	1901430100126	18	MUZAYYAX (A)IAN	MOITE ADIL	SQUADIN	7427835833
	A2019CSEc#28	1901430100127	81	NAMAN CHPTA	PANKAI GUPTA	96/60/92/41	9711878513
(T	A20174-SL6635	1901430100128	111	NAVNEET KUMAR	VEERSINGII	5149*58*1	9750987581
	A2019(SEtse91	1901430100129	81	NEHA STNGIL	MUNNA PRASAD	26971698	9453414152
	A2019(5)65552	1901430100130	181	NIDEL KUSHWAHA	ANGOP KUSHAWAHA	96212631537	9958548471
	A2019CSE6883	1901430100131	81	NIDHI SHARMA	NARENDRA KUMAR SHARMA 1008325095	9008325099	759032826
100	AZ0196SE6537	1961430100132	B1	NILAVA DUTTA	SUBRATA DUTTA	9713475125	9717475126
-	A2019CSE6357	1901430100133	181	NISHIKA SINGH	SANJAY KUMAR	7658892592	7248741532
10	A2019CSE6743	1901430100134	81	NITTIN VERMA	JAWAHAR LAL VERMA	94150568DA	9452232728
12	A2019CSE6602	1901430100135	81	NITISH KUMAR GUPTA.	JAG PRASAD GUPTA	7233821383	9596081534
12	A2019CSEb558	1901430100136	191	PALAK BHATNAGAR	SUNIL BHATNACAR	7599074312	9319366960
1.3	A2019CSE6786	1901430100137	81	PALAK SINGH	BRAJESH SINGH	4303266969	99356817746
	A7027455E6673	1901430100138	81	PODRIVA SAIN	PRAKASH JAIN	8077686191	906P006.16
	A2019/SE0637	1901430100139	B1	PRAFILL CHAULAN	PUSHPENDRA KUMAR	9027034342	7836717172
51	A2019CSF4757	1901430100140	18	PRACATE IMMINEDS	PRAMOD SHANKAR DWIVIDL 84518/0507	- 685181580-	3625635622
1	A2019(F6587	1901430100141	- 81	PRAJJAWAL TIWARI	ARVIND TIWASE	9984975702	9625609908
71	A2219KSF6750	1901430100142	18	PRAKBIAS SINGE	VIJAI SINGH	5696382477	9939675340
7.	A2019(SEco33	1901430100143	19	PRANAV DWIVEDI	PRABHAT KUMAR DWIVEDI	8817562254	3601222296
jt.	220100516664	1901430100144	81	PRANSHILL KAUSHIK	AVINASH KADSHIK	1506054011	3897685885
14	A201 ACSECTIS	1901430100145	9.1	PRATECK MORAN	BRAJESH SINGH	8303346041	9933441796
12	A2019(386761	1901430100146	IH.	PRATHAM CHAUHAN	SWARAJ SINGH CHAURAN	9888553466	9718611007
in in	A2019CSE6880	1901430100147	10	PRATHU BHATI	SANJEEV PRATAP SINGH	9457236685	8394066497
17	A2019CSE6661	1901430100148	9.1	PRBHAV ATTRAY	MANOJ KUMAR ATTRAY	9837023348	9837023248
17	A2019CSLio670	1901430100149	81	PREMLATA YADAV	JAI RAM YADAV	9319172259	3899799812
	AZC19CSE6769	1901430100150	H2	PRERXA KUMME	PRASHANT KUMAR TAANK	817623236	9860250158
100	A2019/CSEG0ES	1901430100151	0.1	PRERMA SAXUNA	ARET KUMAN SAXENA	ひまないののでしたが	9910994849
à	Azzzskaws Azzzskaws	1501430100152	83	PRINCE CHADRAN	SUSHILKUMAR	#95655cm	1922113809
- 1	A2019CS16675	1901430100153	B1	PRIYA RAI	KAMAKHYA RAI	9369025563	9438112713
1	A2019CSE/M42	1901430100154	163	PRIYAM DAGNUDE	PRAMOD KUNCH DWIVEDI	9878344467	8433043443

IMS Engineering College, Ghaziabad Department of Computer Science Engineering List of Students 4th Year CSE3 (Odd Semester) 2022-23

S.No.	Admission ID	Roll No.	Batch	Name	Father Name	PHONE (Student)	Mobile(Parent)
Į.	ANTHORNES OF	1901430100125	H	MUKH MALIK	ANII MALIK	7451802025	2119085419
Į,	Part Set and S	1901430100126	HI	MUZAYYAN JAHAN	MOHD, ADIL,	9027838376	9927830821
4	ALOUT-USERBZB	1901430100127	H	NAMAN GUPTA	PANKAJ GUPTA	9650392343	9711878513
1	Accept 10,000,000,000	1901430100128	BI	NAVNEET RUMAR	VEER SINGII	9149103760	9759987581
	A2039(SE6693	1901430100129	B1	NEHA SINGH	MUNNA PRASAD	8697165845	9453414152
	ALUSH SEBSA	1901430100130	81	NIDHE KUSHWATIA	ANDOP KUSHAWAHA	9821263932	9958546471
	April of NEASH3	1901430100131	III	NIDHI SHARMA	NARENDRA KUMAR SHARMA	9008320099	7599332826
	A2014CSE6537	1901430100132	100	NILAVA DUTTA	SHREATA DITTA	97+7436+36	0210404040
	A2019CSE6557	1901430100133	81	NISHIKA SINGH	SANIAY KIIMAR	766,090,000	20104/2010
2	A2019CSE6745	1901430100134	81	NITTIN VERMA	ANAMARAD: At OCCUPA	Total Contraction	25514/067/
	. AZ019C5E6602	1901430100135	81	NITISH KUMAR GUPTA	JAG PRASAD GUPTA	7233621383	9658061634
11	A201905E634H	1901430100136	111	BALAK BRATNACAB	Personal Part & State of State		
	AZ019CSE6786	1901430100137	18	PALAK CINCH	SUNIL BRAINAGAR	7599074312	9319365900
	Acut Ceter71	1901430100138	ia i	BOODEN TAN	DINGESH SINGH	0303266363	9935881796
	A2019C9E60017	1901430100139	100	POOREN JOIN	PRARASH AIN	8077886156	9719004908
	ATTINGACTOR	CONTRACTOR OF	19	PRAEULL CHAUHAN	PUSHPENDRA KUMAR	9027054342	7830717172
		1901430100140		PRAGATLIMITEDI	PRAMOD SHANKAR DWIVEDS	8851870621	9628898822
	A2019(16587	1901430100141	10	PRAIJAWAL TIWARI	ARVIND TIWARI	9984975789	000000000000000000000000000000000000000
	D5.10 10.50	1901430100142	H.1	PRAKRIAS SINGH	VILLEGING	Octobra de la companie de la compani	9000000000
	A2019GSE44633	1901430100143	81	PRANAV DWIVEDS	PRABILITY COMMAND	30303054	9836675340
	A SHARON SALA				FORDITAL KUNDAR DWIVEDI	831/02/294	9801222256
1	TOWN CHARLES TO SELECT	1901430180144	111	PRANSELL KALSELK	AVINASH KAUSHIK	7305254538	2807855886
	Springer water	1901430100145	90	PRATEER MOHAN	BRAIESH SINGH	8300346046	003500+744
1	10/045/3/2010	1/01/430100146	83	PRATHAM CHADHAN	SWARAI SINGH CHAUBAN	9869645960	Optional Co.
	AZ017C3E6880	1901430100147	B.1	PRATHU BHATI	SANIREY DRATAD CINCO	04630000000	20110011001
	A20.909(6666)	1901430100148	83	PRBHAV ATTRAY	MANOI KIIMAO ATERAK	045/230005	8394085497
1	A3029CSE6670	1901430100149	81	PREMLATA YADAU	for boxe versus	963/023268	9837023246
	A2019//SE6764	1901430100150	81	PREBACA REPARET	AND HAD A	9319172259	8899799812
	A20154-016463	1901430109151	81	PRETRUA CANTINA	PROSIDINI KUMAR TAANK	8178232361	9950259158
45	520194334,915	1501430100152	lil.	DESCRIPTION OF THE PARTY OF	AIRET KUMAR SAXENA	9773665240	9910954449
	A2019CSEA623	1901430100153		DUINE BAT	SUSHII, KIIMAH	#PS8190671	9927188297
	A2019C5D/A62	1901430100154	1 2	CHATCH ION	KAMAKHYA RAI	9389025583	9435112713
		The state of the s	19.5	PHILIPAN DAVING DIS	DOMESTIC WILLSAM STATE S		



		190141470110147	25 25			PRENAME COLL	MUNICIPAL GOLL.	7351799333 8338388916	6273446375
115	19011:01001:0	115				PULKIT STRI	MANAGESTRA	9000819030	9311176345
190113011971s0 R2	H2 H2	H2 H2	-		10	PRISHPANDRA KOMAK	SHIVSHANKARANGH	7818044759	R000562417
1 10031 (0100310) BZ	11.2	11.2	1	-	KA	RACHIT JOSHI	PRAMOD JOSHI	9019528950	3750420429
11.2	14314 (0.150116.2 11.2	11.2		Acres on	KAH	KAHUL SINGH	RANA PRATAP SINGIE	5689561261	9547753556
perisonous R2				-	RAIL	RAJBALJ SINGH	RAM NARESH YADAV		9754547855
19014303000104 B2	1901430100104		1000		RAI	RAJ KESARWANI	RAM CHANDRA KESARWANI	6858642490	8/34899253
1901430100165 82					ILAS	RAJ MAURYA	ANIL KUMAR MAURYA	9020684917	969599715
1901430100166 82	1901430100166		100	1	RA	RAJ KUMAR MAURYA	UMA SHANKAR MAURYA	8608959580	9967308182
1901430100167 B2	1901430100167		0.00		RASI	RAJLAXMI SINGH	RAJIV KUMAR SINGH	9794177122	9452632438
1901430100168 82					RAIL	RAJNISH KUMAR	KABINDRA KUMAR	7703528948	8800558577
L					RAIS	RAJSHREE SINGH	MANOJ KUMAR SINCH	7017367512	0368211791
	1901430100190		455		RAI	RAIVIVEK SUNDRIYAL	KAMLESHWARANAND SUNDRIYAL	7668584610	5410528043
1901430100171 B2			ş.,		RIC	RICHA TIWARI	RAMESHWAR TIWARI	6707637714	8840781957
L			100		RUSH	RISHABIR JAIN	RAKESH KUMAR JAIN	9151710125	941577752
1901430100173 82	1901430100173	200	1100		RISI	RISHABH KUMAR VISHW	SANJEEV KUMAR VISHWAKARMA	7668994307	7597122767
1901430100174 82					RISI	RISHABH RAI	BHOOP SINGH	7505750316	9927542384
	1901439100175		10000		RIS	RISHABH SHARMA	DEVENDRA KUMAR SHARMA	6682387909	9673213458
1901430100176 82			155	1	RITH	RITESH KUMAR GAUTAN	MAHESH BABU	7533976901	9762531791
-	1901430100177				FILT	RITIK MANGAL	LT ANH, MANGAL	6394163977	9451131363
1901:30100178 82	1961:30100178			П	RIY	RIYA MALIK	SUDBITE KUMAR	8130426721	595849977
1901¢30100179 BZ					ROF	ROBIN SHARMA	PURUSHOTTAM SHARMA	8766342321	9953670544
1901430100180 82	1901430100180				HEST	RUDRANSIB RASTOGI	MANISH KUMAR RASTOCE	7088025848	992/104539
1501430100181 82	1501430100181				KILD	RUNIT KUMAR	VIJENDRA SINGH	8449142740	9445654816
1901430100182 82					FOUR	RUPALI SINGH	KAMLESH SINGH	8382024422	9639116635
	1961430160183		200		SAC	SAGAR ARYA	PAWAN KUMAR ARYA	7895897806	0759630325
1901430100184 82	5901430100184				Svi	SAHIL SHIVASTAVA	RAJLEV RANJAN SRIVASTAVA 6386637332	A 6386537332	7081389825
F 1963436100185 BZ					SAR	SAKET PAL.	GANGARAM PAL	9672418362	7500094888
	1901430120011				AR	ARPIT NA BC	AMBRISH RAI	9868011405	
2001430105005 HZ	2001430109005				TIN	LUCKY RAM (1E)	THAMMAN SINGH	8057430700	8057430700
120200517409 2003430105009 B2	2007/2/2010/06/06				101	TRIPTI PANDEY REI	ANIL KUMAR PANDEY	7817025585	5 4548400858
LOGGERTOLES SOME ROYMANNS BY	10010 + 5010303		The second second		1				



Roll No.

IMS ENGINEERING COLLEGE Department of CS/CSE/IT

C11

AV 2022-23(Odd Semester)

Course

: B.Tech

Semester Subject : 7"

Time

: Cloud Computing : 09:30-11:00 (1.5 hours) Dec

Date

: 28.09.2022

Subject Code

: KCS 713

Max. Marks

: 30

CO-1	Describe architecture and underlying COURSE OUTCOMES (CO)
CO-2	Describe architecture and underlying principles of cloud computing. Explain need, types and tools of Virtualization for cloud.
CO-3	Describe Services Oriented Architecture and various types of cloud services Explain Inter-cloud recovers as a services
CO-4	Explain Inter cloud resources management cloud storage services and their providers Asses security services and standards for cloud computing.
CO-5	Analyze advanced cloud technologies.

Q. No.	Questions	co			
	PART- A: Attempt All Questions (5x1 = 5 Marks)				
1. (a)	What is Cloud Computing?	60			
I. (b)	Differentiate between public and private cloud.	co			
1. (c)	What is VMM?	CO			
1. (d)	What do you mean by full virtualization?	CO			
1. (e)	, and of the contractions				
1. (c)	What is Emulator?	co			
	PART-B: Attempt Any Three Questions (3x5 = 15 Marks)				
2. (a)	Explain Evolution of cloud computing with neat diagram.	COI			
2. (b)	Differentiate between public, private and hybrid cloud with examples.	COI			
2. (c)	What do you mean by Service Oriented Architecture (SOA)? How does it support cloud computing?	CO 2			
. (d)	Define virtualization. Demonstrate implementation level of virtualization.	CO 2			
	PART-C: Attempt Any One Question (1x10 = 10 Marks)				
3.	a) Differentiate between distributed computing and parallel computing.	CO 1			
	b) Explain Characteristics of cloud computing. What is Amazon EC2?	CO 1			
4.	a) Explain types of virtualization.				
	b) Explain Publisher Subscriber Model, St	CO 2			
	2 June 2 Shosether Model with near diagram.	CO 2			

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IMS ENGINEERING COLLEGE, GHAZIABAD

Sessional Examination Attendance Sheet Session- (7/ 2022-2023

-		Session- (1; 2022-20	
Sessional	CT1	Branch	CSE 3
Date	20/09/24 405 313	Year & Section	ALCSE3
Subject Code	415 213	Subject Name	Clared Grade
Room No	C-107	Time	
S. No	Roll No	Name of Student	Signature
1	1901430100125	Detrimed	
2			
3	-		
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24			
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27			
28			
29			
30	(

Total Number of student in this Room:

Total Number of Present Student: 01 Total Number of Absent Student: 01 (Defeired)

Name & Sign of Invigilator 1: Ashrik &r 1-Al Name & Sign of Invigilator 2: Dr Rabal Angu-

IMS ENGINEERING COLLEGE, GHAZIABAD

Sessional Examination Attendance Sheet Session- 2022 - 2023

13.00	Salar and the sa	Session- 2022- 2023	
Sessional	CT1	Branch	CSE3
Date	28 9 22	Year & Section	4thyr.(3)
subject Coste	KCS 713	Subject Name	cloud compe
Room No	C-108	Time	9:30-11:00
S. No	Roll No.	Name of Student	Signature
1	1901430100127	Naman Cupta	Nomanly
2	1901430100128	Harnest Kumar	Harnest
3	1901430100129	Nels Single	Nou
1	1901430100130	Nidhi Kushwaha	Older
.5	1901430100131	Niethi Shasima	Oshe
6	1901430100132	Nilava Dutta	Wilawa Dal
1	1901430100133	Nishika Singh	Nighila
3	1901430100134	Notin Venma	NHY
9	1901430100135	Nitigh Kumar Gupta	New
10	1901430100136	Palak thatnagar	feelings
11	1901430100137	Palat Singh	Palet.
12	190143010018	Poorna Jain	Rooma
13	190 1430100 141	Programal awari	Prajoul
14	1901430100142	Brakber Single	Rokher
15	1901430100143	Praner Dwildi	dress
16	1901430100126		DETAINED
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Fotal Number of student in this Room: 18

Fotal Number of Present Student: Total Number of Absent Student: 15

Name & Sign of Invigilator 1:

Name & Sign of Invigilator 2:

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IMS ENGINEERING COLLEGE, GHAZI MAD

Sessional Examination Aftendance Sheet

2022-23 Session-

W. 177	The state of the s	X000-23	
Sessional	The second secon	Branch	CSE
Pate object t - n	28/09/22	Year & Section	11th year /c
Room Na	The state of the s	Subject Name	Cloud Compu
	L & U.	Time	7:30-11:00
S. No.	Rell No	Name of Student	Signature
	1901430100144	Prairie Kampine	Register
2.	7410010241061	Brateck Mohan	Bratek
41	1901430 100 147	Brothy Bhat	Barthe
4	1401430100148	PREHAM ATTRAT	(of N
5	1901430100149	Premilata Yadav	Premiate
. 6	1901430100151	Pulvina caxena	Paxely
†	1901430100150	- (ABSENT) _	ABSENT
8	190143010153	Priya Rai	Pulya
9	19014 30 100154	Priyon Dwivedi	Supre
10	1901430100157	Priyanshu Goel	
11	1101120100131	12 agansia order	higanshi
12	1901430100159	Pulkit Tyagi	Supitros
13	1901430100160	Rushpendra kumas	Eustpendra
14	1901470100161	Rachit Tosh;	Rocke
15	1901430100146	\	1
16	152	Detained	Detaine
17		Detoined	Detremed
18	156	Detained	Detained
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IMS Engineering College

NH-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziabad, U.P. Tel: (0120) 4940000

Department of CSE/CS//IT

CLOUD COMPUTING -KCS 713 (2022-2023)

Special Assignment for Detained Students (CT-1)

Maximum Marks: 30

Submission Date: 06/10/2022

COURSE OUTCOMES

By the end of the course, students will be able to:

CO No.	Description	Bloom's Level
C 403.1	Describe architecture and underlying principles of cloud computing.	КЗ
C 403.2	Explain need, types and tools of Virtualization for cloud.	K3,K4
C 403.3	Describe Services Oriented Architecture and various types of cloud services	K2,K3
C 403.4	Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing.	K2,K4
C 403.5	Analyze advanced cloud technologies.	K3,K6

ATTEMPT ALL QUESTIONS each question carries equal marks

Q. No.	Question	co
1.	Explain evolution of cloud computing with neat diagram	COI
2.	Differentiate between public, private and hybrid cloud with examples.	COI
3.	What do you mean by Service Oriented Architecture (SOA)? How does it support cloud computing?	CO2
4.	Define virtualization. Demonstrate implementation level of virtualization.	CO2
5.	Differentiate between distributed computing and parallel computing.	COI
6.	Explain Characteristics of cloud computing. What is Amazon EC2.	COI
7.	Explain types of virtualization with neat diagram.	CO2

8.	Explain Publisher Subscriber Model with neat diagram	CO2
9.	Compare IaaS,PaaS and SaaS in detail.	COI
10.	Explain Reference model of Virtualization in detail.	CO2
11.	Explain CPU Virtualization, Memory Virtualization and I/O virtualization in detail.	CO2
12.	What is Web services. Expalin it briefly.	CO2
13.	Explain REST with RESTful services.	CO2
14.	What is On Demand Provisioning? Explain with an example.	ÇOI
15.	What is Elasticity in Cloud?	COI

30/09/2022

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IMS ENGINEERING COLLEGE Department of CSE/CS/IT

CT-11

AY 2022-23 (Odd Semester)

Course Semester B. Tech

710

: Cloud Computing

Subject Time

: 1.5 Hours

ate : 11.11.2022

Subject Code

KCS 713

Max. Marks

: 30

	COURSE OUTCOMES (CO)
CO-1	Describe architecture and underlying principles of cloud computing.
CO-2	Explain need, types and tools of Virtualization for cloud.
CO-3	Describe Services Oriented Architecture and various types of cloud services
CO-4	Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing.
CO-5	Analyze advanced cloud technologies.

Q. No.	Questions	CO
-	PART- A: Attempt All Questions (5x1 = 5 Marks)	
1 (a)	Differentiate between public and private cloud.	CO 3
1 (b)	Explain Hybrid Cloud.	CO 3
1 (c)	What are security services in the cloud?	CO 4
1 (d)	Describe threat Agents. Explain their role in cloud security.	CO 4
1 (c)	Explain inter cloud resource management. Write name of its types.	CO
	PART-B: Attempt Any Three Questions (3x5 = 15 Marks)	-
2 (a)	What is Cloud Storage Providers? Explain Amazon S3 in detail.	co
2 (b)	Explain IaaS, PaaS and SaaS with neat schematic diagram.	CO
2 (c)	Explain global exchange with diagram.	co
2 (d)	Explain the Cloud Computing security architecture using suitable block diagram-	co
	PART-C: Attempt Any One Question (1x10 = 10 Marks)	
3	 a) Identify NIST cloud computing reference architecture with a neat schematic diagram. 	co
	b)What do you mean by cloud storage? Describe its types.	co
4	a) What do you mean by Cloud Security Governance? Explain key objectives and challenges of cloud security governance in details.	CO
	b) Explain IAM Standards and its advantages and disadvantages.	CO

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Department of Computer Science & Engineering Faculty Name: Mr. Amit Kumar Subject Name: CLOUD COMPUTING Subject Code: KCS-713 Year: 3rd year 2022-2023 Odd Semester Section: CSE3

1	Red B	and Students (CT 2)	
SN	Roll No.	Student Name	CT2 (30)
1	1901430100125	MUNUL MAJIK	D
2	1901430100128	NAVNEET KUMAR	A
3	19524303000129	NEHA SINGH	A
4	1931430100131	NIDH SHARMA	A
-5	1901430100133	NISHIKA SINGH	A
6	1901430100137	PALAK SINGH	A
7	1901430100143	PRANAV DWIVEDI	A
8	1901430100153	PRIYA RAI	A
9	1901430100166	RAUKUMAR MAURYA:	A
10	1901430100167	FA LAXMISINGH	A
11	1901430100170	RALVIVEK SUNDRIYAL	A
12	1901430100171	RICHATIWAR	A
13	1901430100172	RISHABHJAIN	A
14	1901430100183	SAGAR ARYA	A
15	1901430100184	SAH LISRI VASTAVA	A
16	2001430109005	LUCKY RAM	A
17	2001430109007	RADHIKA SHARMA	А
18	1901430100138	POORVAJAIN	D
19	1901430100139	PRAFUL CHAJHAN	D
20	1901430100142	PRAKHAR SINGH	D
21	1901430100146	PRATHAM CHAUHAN	D
22	1901430100148	PRBHAV ATTRAY	D
23	1901430100149	PREMIATA YADAV	D
24	1901430100152	PRINCE CHAUHAN	D
25	1631430100156	PRIVANSH VATSAL	D
26	1901430100159	PUCKIT TYASI	D
27	1901430100163	EAJEAU SINGH	D
281	1901430100169	RAISHREE'S NGH	D
23	1501480100174	RISHABH KUMAR VISHWAKA	D
46	1001450170175	RISHABE SHARMA	D
81	190143012001	ARPIT RA	D
12	1001430100167	ENATHO BHATI	7
331	1901430100179	TROBIN SHARIMA	12
Tail	100 1430100181	FUIVITKUMAR	12
35	1001430103165	BACNISH RUMAR	13
363	1991/10/03/56	TUTTLE KUMAE GAUTAM	16
37	Into Asio to Sing	HUD WANSH RASTOR	17

	Yellow	Band Students(CT 2)	
1	1901430100164	RAJ KESARWANI	18
2	1901430100182	RUPALI SINGH	18
3	1901430100132	NILAVA DUTTA	19
4	1901430100160	PUSHPENDRA KUMAR	
5	1901430100162	RAHUL SINGH	19
6	1901430100130	NIDHI KUSHWAHA	20
7	1901430100154	PRIYAM DWIVEDI	-
8	1901430100150	PRERNA KUMARI	20
9	1901430100185	SAKET PAL	21
10	1901430100126	MUZAYYAN JAHAN	22
11	1901430100157	PRIYANSHU GOEL	23
12	1901430100178	RIYA MALIK	23
		DODGE BUILDING	23

1	1901430100135	NITISH KUMAR GUPTA	24
2	1901430100151	PRERNA SAXENA	- 24
3	1901430100161	RACH T JOSH	24
4	1901430100165	RAJ MAURYA	24
5	1901430100174	RISHABH RAJ	24
6	2001430109009	TRIPTI PANDEY	25
7	1901430100141	PRAJJAWAL TIWARI	26
8	1901430100177	RITIK MANGAL	26
9	1901430100140	PRAGATI DWIVEDI	27
10	1901430100145	PRATEEK MOHAN	27
11	1901430100144	PRANSHUL KAUSHIK	28
12	1901430100158	PULKIT SURI	28
13	1901430100134	NITIN VERMA	29
14	1901430100127	NAMAN GUPTA	30
15	1901430100136	PALAK BHATNAGAR	30



IMS Engineering College

NII-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziahad, U.P. Tel: (0120) 4940000

Department of CSE/CS//IT

CLOUD COMPUTING -KCS 713 (2022-2023)

Special Assignment for Detained/Absent/Weak Students (CT-2)

Maximum Marks: 30

Submission Date: 17/11/2022

COURSE OUTCOMES

By the end of the course, students will be able to:

CO No.	Description	Bloom's Level
	Describe architecture and underlying principles of cloud computing.	K3
C 403.1		7/3 // 1
C 403.2	Explain need, types and tools of Virtualization for cloud.	K3,K4
C 403.3	Describe Services Oriented Architecture and various types of cloud services	K2,K3
C 403.4	Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing.	K2,K4
	Analyze advanced cloud technologies.	K3,K6
C 403.5		_

ATTEMPT ALL QUESTIONS each question carries equal marks

Q. No.	Question	CO
1.	What is Cloud Storage Providers? Explain Amazon S3 in detail.	CO3
2.	Explain IaaS, PaaS and SaaS with neat schematic diagram.	CO3
3.	Explain global exchange with diagram.	CO4
4.	Explain the Cloud Computing security architecture using	CO4
5.	Identify NIST cloud computing reference architecture with a neat schematic diagram.	CO3

6,	What do you mean by cloud storage? Describe its types.	CO3
7.	What do you mean by Cloud Security Governance? Explain key objectives and challenges of cloud security governance in details.	CO4
8.	Explain IAM Standards and its advantages and disadvantages.	CO4
9.	Differentiate between public and private cloud.	CO3
10.	Explain Hybrid Cloud.	CO3
11.	What are security services in the cloud?	CO4
12.	Describe threat Agents. Explain their role in cloud security.	CO4
13.	Explain inter cloud resource management. Write name of its types.	CO4
14.	Define and explain VMM.	CO3
15.	How is API used in cloud services?	CO4

12/11/22

		Faculty Name, M.		
		OUD COMPLTING	Set	inst Code KC5-7D
Yes	Ord your 282.	2023 Odd Semister		ection: CSE3
5N		Student Name	CTLOR	CHOM COL
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10	1501010101241	FRANKE DWIVEDS	20	A
20	1901436160148	PRANSHIO MALDER	37	28
21	1905498140308	PRATTER WOHAN	26	11
21	18/14/8017/03/46	PRACHAM CHADRAY	0	5
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10	1901490300110	PRIVA RAI	28	Α.
10	1981430000034	PROXING WINTER	17	80
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8	1981430300043	RANKALI SIYUH	18	0
9	1901430000064	RAJ KESARIKANI	9	28
10	1501430300565	MA/MALITHA	12	24
1	1991430000166	PAC ELIMAN MAURYA	38	
2	1903490000167	FALAMS SINGH	21	A
3	1903/43/01/02/168	FAMSHKUWAR .	D	11
4	1901430100169	MAISHRE SINGH	0	4
5	1900430100170	RAVINER SUNDANAL	26	A
6	1900400100171	RICHA TIWARI	19	A
7	1901430100172	KOYASH JARY	22	A
8	0001430100178	RISHADA ILIMAN VIDANCARANNA		D
9	1901490190174	KSWBI AV	13	34
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1	1981430300176	MATURD RAWLES HESTS	0	16
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Result Analysis	The second rest	Marine Co.	
	CI-I	CT-2	CTJ
Number of Students	64	64	64
Number of Students	47	33	0
Total Pass students	46	32	. 0
Pass %(246%)	97.87%	96.97%	#D1V/0
Average Marks	21.57446809	21.757576	#D1V/0
Highest Marks	30	30	0

(Name & Signature of Subject Teacher)

(HOD)



Roll No.

IMS ENGINEERING COLLEGE Department of CSE/CS/IT

CT-III

AY 2022-23 (Odd Semester)

Date Subject Code 1 1212.2022 1 KCS 713

Max. Marks

: 30

Subject

Course

: B.Tech 710

Semester

Cloud Computing

Time

: 1.5 Hours

	COURSE OUTCOMES (CO)
CO-1	Describe architecture and underlying principles of cloud computing.
CO-2	Explain need, types and tools of Virtualization for cloud.
CO-3	Describe Services Oriented Architecture and various types of cloud services
CO-4	Explain Inter cloud resources management cloud storage services and their providers. Assess security services and standards for cloud computing.
CO-5	Analyze advanced cloud technologies.

Q. No.	Questions	co
	PART- A: Attempt All Questions (5x1 = 5 Marks)	
1 (a)	Why resource scheduling is needed?	CO 4
1 (b)	Differentiate between Demand driven & Event driven	CO 4
1 (c)	What is Big Data?	CO 5
1 (d)	Define Virtual Box.	CO 5
1 (e)	Define Open Stack.	CO 5
	PART-B: Attempt Any Three Questions (3x5 = 15 Marks)	
2 (a)	Describe various Cloud security challenges in detail.	CO 4
2 (b)	What is Map Reduce? Explain its working and steps involved in Map Reduce.	CO 5
2 (c)	Give a suitable definition of Cloud Federation Stack & explain levels of federation in detail.	CO 5
2 (d)	Explain the major cloud features of Google App Engine.	CO 5
	PART-C: Attempt Any One Question (1x10 = 10 Marks)	
3	a) Explain virtual machine security in cloud computing.	CO 4
	b)Describe elements of cloud governance security in detail with diagram.	CO 4
4	a) What do you mean by Hadoop & its history? Why it is important?	CO 5
	b) Illustrate Hadoop Architecture.	CO 5



Department of Computer	
Faculty Name: M	Subject Code:KCS-713
bipet Name: CLOUD COMPUTING un-tilb year 2022-2028 Odd Semeder	Section: CSE3

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	Yellow Band	Students(CT3)	100
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7	1901430100194	PREFINA CUMARE	
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-	Green Band SoutenbiCL 3;	
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-	THE LEGISLATION SEE CHALPIAN	21
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200	190141000957E PACKINER MADRIO	23
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-	1903A1G100LTE BESABERUMARY	BHW 13
6	1901430300074 RESIDENT RA	23
7	SSCIASSIDOLES MUZAYMA INCAM	24
	1901410100148 FREHAVATTRAY	14
9	1905430130349 MICHIGATATADAN	24
101	THUTASCLOUISE FRINKS SAVENA	14
11	1801490300029 (NEW SARE)	25
12	TODASTROLES PRANAY DWIVED	25
13	DETROCTOR FRATHAM CHAVE	AN 15
14	19CH 2020CABL PACH STAPMA	26
35	1903A31100155 PAYANSH VATSA	27
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IMS Engineering College

NH-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziabad, U.P.

Tel: (0120) 4940000

Department of CSE/CS//IT

CLOUD COMPUTING -KCS 713 (2022-2023)

Special Assignment for Absent/Weak Students (CT-3)

Maximum Marks: 30

Submission Date: 19/12/2022

COURSE OUTCOMES

By the end of the course, students will be able to:

CO No.	Description	Bloom's
C 403.1	Describe architecture and underlying principles of cloud computing.	K3
C 403.2	Explain need, types and tools of Virtualization for cloud.	K3,K4
C 403.3	Describe Services Oriented Architecture and various types of cloud services	K2,K3
C 403.4	Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing.	K2,K4
C 403.5	Analyze advanced cloud technologies.	K3,K6

ATTEMPT ALL QUESTIONS each question carries equal marks

Q. No.	Question	co
1.	Why resource scheduling is needed?	CO 4
2.	Differentiate between Demand driven & Event driven	CO 4
3.	What is Big Data?	CO 5
4.	Define Virtual Box.	CO 5
5.	Define Open Stack.	CO 5
6.	Describe various Cloud security challenges in detail.	CO 4
7.	What is Map Reduce? Explain its working and steps involved in Map Reduce.	CO 5

8.	Give a suitable definition of Cloud Federation Stack.	CO 5
9,	Explain the major cloud features of Google App Engine.	CO 5
10.	Explain virtual machine security in cloud computing.	CO 4
11.	Describe elements of cloud governance security in detail with diagram.	CO 4
12.	What do you mean by Hadoop & its history?Why it is important?	CO 5
13,	Illustrate Hadoop Architecture.	CO 5
14.	Give an example of Map Reduce in detail.	COS
15.	Explain levels of federation in detail.	COS

14/12/22



1MS Engineering College NH-09, Adhyatmik Nagar, Near Dasna, Distt. Ghaziahad, U.P. Tel: (0120) 4940000

Department of Computer Science & Engineering

List of Bright and Weak Students

	Br	ight & Weak	Stude	ents of Cloud C	omputing(KC	5 713	Section CSE 3	
	Ac	ademic Sessio	on 20	22 23 Esta Sen	ester Faculty	Name	: Amit Kum ar	
				Bright S	tudents			
	CTI		CT2			CT3		
Sr. No.	University Roll No.	Name of Student	Sr. No	University Roll No.	Name of Student	Sr. No.	University Roll No.	Name of Student
1	1901430180 127	Naman	1	1901430100	Palak Bhathagar	1	190143010	Navneel Kumaz
2	138	Jain	2	190143980	Nomar- gupta	2	1901430100	Pragati Dwivedi
3	1901430100	Rajvivek Sundriyal	3	134		3	1901430100	Priya
4	04105H1061 FS1	Palak Singh	4	19014300° 158	Pullit Swi	4	1901430100	Riya Malik
5	1301430100	Nishika Singh	5	19843880 144	Ranshul Kaushih	5	182	Rupali Single
_				31/ 1 //				0
	CT1		-	Weak St	udents	-		
6			CT2		CT3			
Sr. No.	University Roll No.	Name of Student	Sr. No	University Roll No.	Name of Student	Sr. No.	University Roll No.	Name of Student
1	1301430100	Rishahk	1	1901430000	Prothee	1	1901430110	Saga

	A STATE OF THE STA			C12			C13		
Sr. No.	University Roll No.	Name of Student	Sr. No	University Roll No.	Name of Student	Sr. No.	University Roll No.	Name of Student	
1	1301430100	Rishabh Raj	1	1901438180	Prothu Bhati	1	190430W	Sagar	
2	147	Bhati	2	1901436100 179	Robin	2	The second secon		
3	1901430190	Marrya		190143 01 00	Runit	3	19014301va	Prafull	
4	1901430100	Pushpeudia Kumar	4	1901430700 168	Raynish Kumar	4	19014300	Rajnish Kumar	
5	1901430160	Premlata Yadav	5	1901430100 176	Ritest Kumai	5	1901430VQ	Rishabh	