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EINSTEIN ACADEMY OF TECHNOLOGY AND MANAGEMENT

Approved by AICTE, Affiliated to BPUT Odisha At: Baniatangi, PO: Bajapur, Khurdha, PIN: 752060 Bhubaneswar

Supporting Document for Qualitative Metric 2.3.1 Use of ICT enabled Tools





Submitted to NAAC

By

Einstein Academy of Technology and Management (EATM),

Bhubaneswar



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4. Use of ICT tools

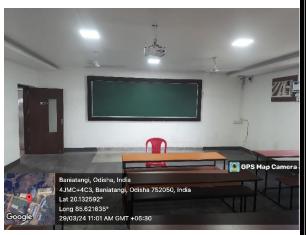
4.1. ICT enabled Class Rooms



Room No. A205



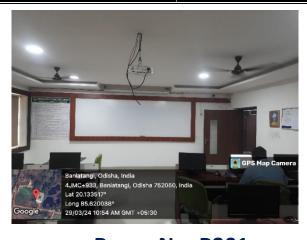
Room No. A108



Room No. B104



Room No. B202



Room No. B201

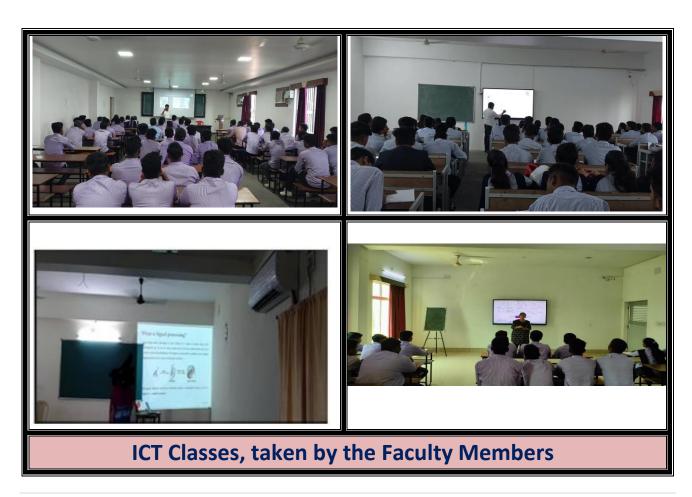


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Classrooms/Seminar Hall with LCD / Wi-Fi / LAN facilities with room

Some of the Classrooms	and seminar halls with ICT - ena LMS, etc	abled facilities such as smart class,
Room number or Name of classrooms/Seminar Hall with LCD / Wi- Fi/LAN facilities with room numbers	Type of ICT facility	Link to geo tagged photos and master time table
A-205	LCD / Wi-Fi / LAN	tinyurl.com/ICT-ClassRooms
A-108	LCD / Wi-Fi / LAN	tinyurl.com/ICT-ClassRooms
B-104	Over-Head Projector/Display Screen/ LAN	tinyurl.com/ICT-ClassRooms
B-201	Over-Head Projector/Display Screen/ LAN	tinyurl.com/ICT-ClassRooms
B-202	Over-Head Projector/Display Screen/ LAN	tinyurl.com/ICT-ClassRooms
** (Data for the latest co	ompleted academic year)	

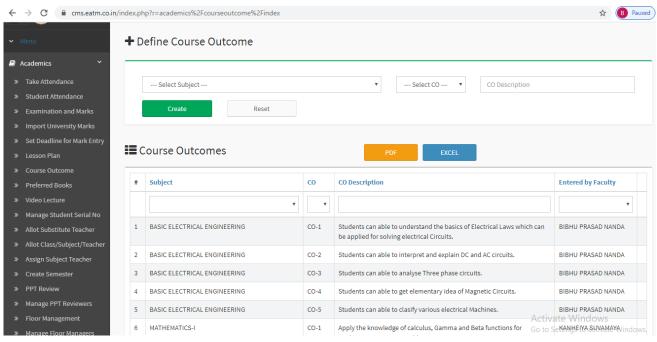
4.2. ICT Enabled Teaching Methodologies



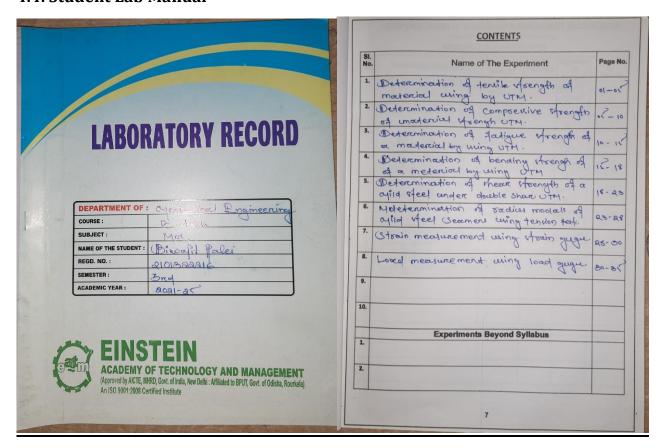
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4.3. Academic Planning



4.4. Student Lab Manual





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ī. T		Date of Expt	Marks	Signature	Signature		LABO		VALUATION			T-t-
0.	Name of The Experiment Determination of terri	Perform	Awarded	Student	of faculty		Name of the Experiment	Experiment planning and	Result and Interpretation	Report Maximum marks	Understand ing Theory related to	Total Mark Maximum
	Avenath of material.	08/01/28		Thorse	JAN	SI. No.	SECTION ASSESSMENT OF	execution Maximum marks (02)	Maximum marks (03)	(03)	Experiment Maximum marks	marks (10)
	Determination of Compressive Avenith.	04/02/23	E	Dieman.		01.	Determination of terril strength	02	03	02	62	09
. (Determination of Statigue strengths.	11/02/23	0	Bisworth	Pun		Determination of	02	02	62	62	09
l.	Determinaction of	22/02/25	I	Birogth.	OND		Determination of	02	02	62	82	80
5.	bending strength. Determination of	1		- valit	- CAN		Determination of booking Henry	02	03	02	02	09
	of serie Heerogin.	04/03/29	0	Roller			Determination of	02	02	02	02	09
	Determination of ac		0	Birasilit	is but	06.	Determination of hydris module.	02	02	63	02	09
7.	strain measurment	18/03/25	0	Birarit	THE PAIN		Load mesanement	02	02	02	02	09
3.	stooin measurement ceing thain gauge though measurement cuing Indicator loo	1 28/03/8	0	Discour		09.	cering load indicator.					1
9.	using Indicator loa	9 17 19		-		10.						
9.			-			01.		Experiment	s Beyond Sylla	bus		
10.						02.				-	1	
	Ext	eriments Be	yond Sylla	bus		Tota	Marks Secured by the Student					
1.	7						Mark in every Experiment 50% ture of the Faculty:	6 of total mar	ks.	4	Signature	Palei of the Stu
2.						Date:	n: Mechanical.		F	Registration	No.: 21013	32221
						Date:	1-					

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4.5. Question Bank

Ouestion Bank

Question Bank	
EINSTEIN Academy of Te	chnology & Management
Baniatangi, Khurd	ha, Bhubaneswar
Department of CI	VIL Engineering
Class Test-I	
Subject - SA-I	Subject code - RC14C003
Full Marks - 30	Academic Year-2022-23
Time - 1 Hour	Semester – 4 TH
 Programmable Calculators are not allowed. 	
Read the Instructions carefully and attend the	questions as ner instructions

Answer of all bits of questions should be done at one place.

	Group - A (Ans	wer all th	ie quest	tions)
Q. No. 1	Questions	Marks	CO ₂	BTL
a.	Differentiate between determinate and indeterminate structure.	[2]	1	1
c.	Differentiate between static and kinematic indeterminacy.	[2]	1	2
d.	Differentiate between equilibrium and compatibility equation.	[2]	1	2
e.	Explain support condition of various supports with diagram.	[2]	2	1
f.	Write down the slope and deflection equation for a fixed beam with point load at middle and UDL over the beam.	[2]	3	2
g.	Find DS. Where M, J is 20 and 10 (in 2D&3D)	[2]	1	1

Group-B (Answer any one bit from each Question.)

Q.	No.	Questions	Marks	CO ₃	BTL
	a.	Find DS and DK of a cantilever beam with point load at the free end.	[6]	2	1
2.	ъ.	Determine the static indeterminacy of a simply supported beam with central point load	[6]	3	3
_	a.	Draw BMD of propped cantilever beam by CDM.	[6]	1	1
3.	Ъ.	Explain briefly about types of Loads and supports.	[6]	3	3
4.		Write down the slope and deflection equation for all types of beams with diagram.	[6]	1	1

**** All The Best ****



EINSTEIN	ACADEMY OF TECHNO BHUBANES	LOGY AND MANAGEMENT WAR
De	partment of Mechanical I	Engineering
Approximation of the second	CLASS TEST -	
Subject: Basic Mech	anical Engineering	Subject code: 23ES1006
Course: B.Tech	Semester: 2nd Sem	Academic Year: 2022-23
Branch: All	Full Marks: 30	Time: 60 min
Programmable Calcu	lators are not allowed.	
Read the Instructions	carefully and attend the qu	estions as per instructions.
Answer of all bits of	questions should be done at	one place

Q. No. 1	Questions	Marks	COs	BTL
a.	What is the difference between macroscopic and microscopic approach?	2	1	1
b.	What are extensive and intensive property? Give examples.	2	1	1
c.	List the limitations of first law of thermodynamics.	2	2	2
d.	Write the two statement of second law of Thermodynamics	2	2	1
e.	What is meant by PMM1 and why it is not possible?	2	3	2
f.	Define Entropy and State the Clausius Inequality.	2	3	1

N	0.	Question	Marks	COs	BTL
2	a	A fluid at a pressure of 3 bar and with specific volume of 0.18 m3/kg contained in a cylinder behind a piston expands reversibly to a pressure of 0.6 bar according to a law, p=c/v2 where c is a constant. Calculate the work done by the fluid on the piston.	6	1	5
	ь	Prove that Internal energy is a property of the system.	6	1	4

3	a	A mass of 8 kg expands within a flexible container so that the p-v relationship is of the form pv ^{1,2} = constant. The initial pressure is 1000 kPa and the initial volume is 1m ³ . The final pressure is 5 kPa. If specific internal energy of the gas decreases by 40 kJ/kg, find the heat transfer in magnitude and direction.	6	2	5
	ь	It is desired to compress 20 kg of gas from 2.5 m³ to 0.5m³ at constant pressure of 20 bar. During this compression process, the temperature rises from 20°C to 140°C and increase in internal energy is 3500 kJ. Calculate the work done, heat interaction and change in enthalpy during the process. Also, find out the average value of specific heat at constant pressure.	6	2	5
	a	Explain the difference between heat pump and refrigerator, also find the C.O.P	6	3	4
4	Ь	Determine the work done in compressing 1 kg of air from a volume of 0.15 m³ at a pressure of 1 bar to a volume of 0.05 m³, when the compression is (i) isothermal, and (ii) adiabatic, take $\gamma = 1.4$.	6	3	5

*BTL - Blooms Taxonomy Lev *CO - Course Outcome

Principal

Principal

Einstein Academy of Technology & Managemen

Bhubaneswar, Khurda



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4.5. Books, Journals, e-journals and e-books in the library

Institute Library



About digital library @ EATM

Welcome to the Einstein Academic of Technology & Management, Central Library. The aim of the Library is to provide the most effective lending, references, proactive, current awareness and information provision services according to present and future needs of the users. Also our Library provides to maintain and develop access to EATM collections as a research resource for the students, staff and research community.

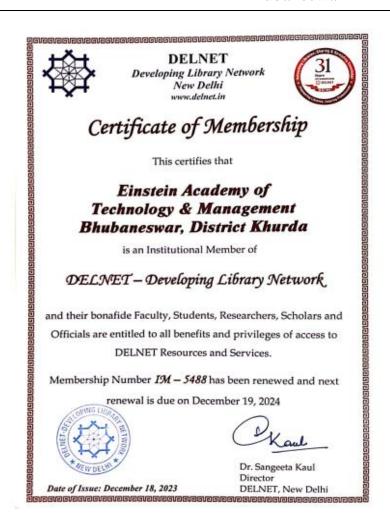
The library supports the academic programs of our college through collections and services, which enable the students and the faculty to access, update their knowledge and information resources. This support empowers our customers to develop the information and technological competencies necessary to achieve their educational, research and professional goals. This enables them to succeed in the workforce and apply lifelong learning skills. In coming years, library will be delivering much more user-focused and technologically sophisticated services, designed to meet the contemporary information needs of the students and the staff.

Digital Library is equipped with 20 Computers connected to high end server with 30 Mbps high-speed internet connectivity to access e-Journals & e-Books. NPTEL Facility (National Programme on Technology Enhanced Learning) to access web& video lectures and Institutional Membership of DELNET for resource sharing and Institutional Membership of J-Gate for e-Journals is available in the library. There is an access to MOOCs Courses, NPTEL, Coursera Spoken Tutorial and all.

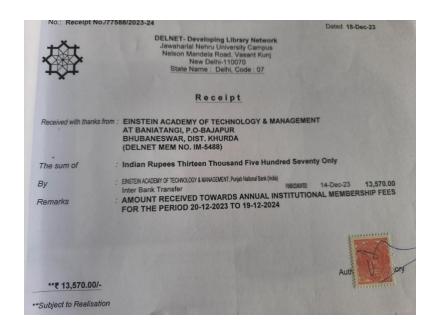
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Certificate of DELNET

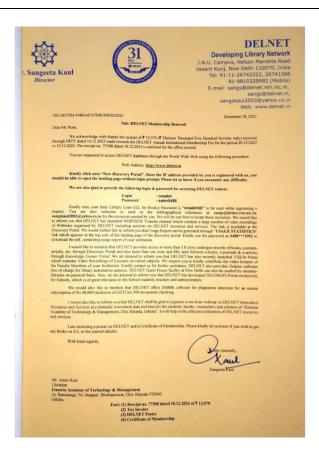


Money receipt of DELNET





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Renewal letter of DELNET





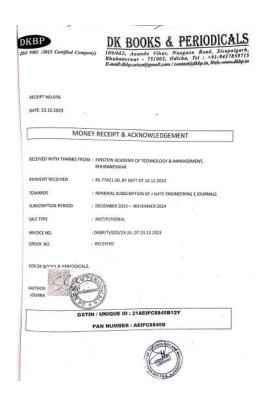
Money receipt of subscription of other journals

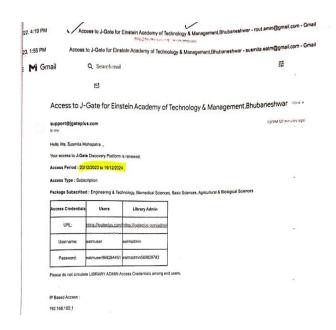
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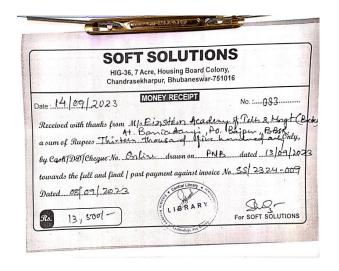
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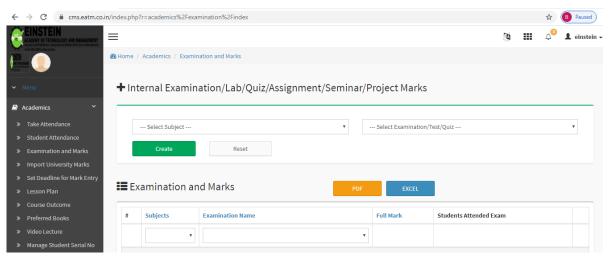


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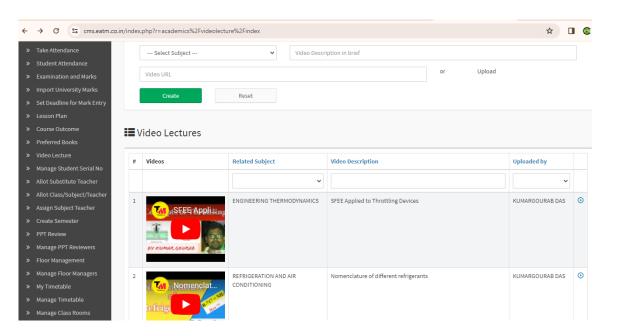
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4.6. College management System (CMS)

4.6.1. Examination and Marks System in CMS:

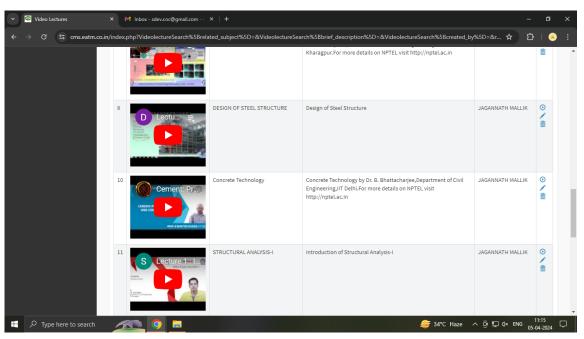


4.6.2. Video Lectures in CMS:

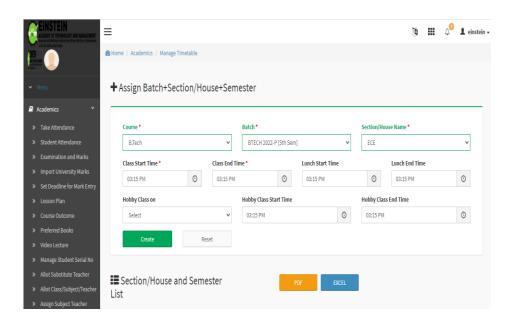




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4.6.3. Class Timetable:



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4.6.4. Academic & Event Calendar For Odd Semester- 2022-23

	1				ACADEMI	CR	EV	CADEMIC & EVENT CALENDAR FOR ODD SEMESTER-2022-23	ARF	OR	ODD SEMES	TE	R-202	2-23			
						Ei	nstei	Einstein Academy of Technology & Management	chnol	ogy	& Management						
SEPT DAY	AY	ACTIVITY	OCT D	DAY	ACTIVITY 1	NOV DAY	AY	ACTIVITY	DEC DAY	DAY	ACTIVITY	IAN	DAY	ACTIVITY 1	FEB DAY		ACTIVITY
1 11	Thu	Nuakhai	1	Sat		1 T	Tue		-	Thu		1	Sun	New Year Day	1 V	Wed	
2 Fr	FF	Feedback on course	2 8	Sun	Gandhi Jayanti	2 W	Wed		2	H.	2nd & 4th Semester Fxam	2	Mon		2 1	Thu	
3 S	Sat co	coverage and attendance	3 N	Mon		3 T	Thu		3	Sat		6	Tue		3	Fri	
4 Su	Sun		4	Tue		4 I	涯		4	Sum		4	Wed		4	Sat	
5 MG	Mon Cl	Class test-1 of 2nd & 4th	5 0	Wed	Durga Puja	2	Sat	Closing date of Instruction of 2nd & 4th Sem	5 N	Mon	2nd & 4th Semester	50	Thu Revi	Review of Committee Reports	2	Sun	
6 Tv	Tue	Sem	6	Thu		9	Sun		9	Tue	Exam	9	Fri		9 N	Mon	
7 We	Wed		7	Fri		7 M	Mon		7 1	Wed		7	Sat		7 1	Tue	
4L 8	Thu Clo	Closing date of Instruction of 6th Sem	00	Sat		8 T	Tue	Rahasa Purnima	8	Thu		00	Sun		8	Wed 7th Ser	7th Semester Exam
9 Fr	Æ		6	Sun	Kumar Pumima	M 6	Wed		6	Fri		9	Mon	3	6	Thu	
10 Sa	Sat		10 N	Mon	Class Starts of 7th sem	10 I	Thu		10	Sat		10	Tue		10	温	
11 Su	Sun		11	Tue		11 F	H.		11	Sum		11	Wed		11	Sat	
12 Mo	Mon	Class test-2 of 6th Sem	12 V	Wed		12 S	Sat		12 N	Mon	Class Starts of 3rd & 5th sem	12	Thu		12 8	Sun	
13 Tv	Tue		13 T	Thu		13 S	Sun		13	Tue		13	Fri Fee	Se	13 N	Mon	
14 We	Wed Orie	Orientation Programme for 1st Sem	41	Fi		14 M	Mon	Class test-2 of 2nd & 4th	14 1	Wed	Review of Committee	41	Sat	coverage and attendance	14	Tue 7th Ser	7th Semester Exam
15 TF	Thu		15	Sat		15 T	Tue	Sem	15	Thu	Reports	15	Sun		15 V	Wed	
16 Fr	Fri		16 8	Sun		16 W	Wed	Prathamastami	16	Fri	Class tant 1 of 7th Com	16	Mon		16]	Thu	
17 Sa	Sat	Viswakarma Puja	17 N	Mon		17 T	Thu		17	Sat	oldss (cst-1 of / m sem	17	Tue		17	Fri	
18 Su	Sun		18 7	Tue		18 F	Fri	2nd & 4th Semester Exam	18	Sun		18	Wed	50	18	Sat Maha	Maha Shivaratri
19 Mon	ПO		19 V	Wed		19 S	Sat		19 N	Mon		19	Thu		19	Sun	
20 Tv	Tue		20 J	Thu		20 S	Sun		20	Tue		20	Fri Class	Class test_2 of 7th Sem	20 N	Mon	
21 We	Wed	6th Camartar Erran	21	Fri		21 M	Mon		21 1	Wed		21	Sat		21 1	Tue	
22 TF	Thu		22	Sat		22 T	Tue		22	Thu		22	Sun		22 V	Wed	
23 Fri	ig.		23 8	Sum		23 W	Wed		23	Fri	Class test-1 of 1st Sem	23 1	Mon	Netaji Jayanti	23 1	Thu	
24 Sz	Sat		24 N	Mon	Kali Puja	24 T	Thu 2	2nd & 4th Semester Exam	24	Sat		24	Tue		24]	Fri Class tes	Class test-2 of 1st Sem
25 Su	Sun		25 7	Tue	Day following Diwali	25 F	Æ		25 8	Sun	X-mass Day	25 1	Wed	50	25	Sat	
26 Mc	Mon		26 V	Med	ECHNOLOG.	26 S	Sat		26 N	Mon		26	Thu S	Republic Day / Saraswati Puja	26 5	Sun	
27 Tv	Tue	6th Semester Exam	27 1	Thu	WESW	27 S	Sun		27	Tue		27	Fri Clas	3	27 N	Mon	
28 We	Wed		28	Fri	(SHUBERT)	28 M	Mon		28 1	Med		28	Sat	5th Sem	28 1	Tue	
29 Th	Thu		29	Sat	EMG:	Z9 T	Tue 2	2nd & 4th Semester Exam	29	Thu		29	Sun				
30 Fi	Fri		30	Sum		30 W	Wed		30	Fri		30	Mon				
			31 N	Mon					31	Sat		31	Tue				
	H.	Public Holiday & Sunday Class Test Semester Exam Musical Night Events			Principal Management Enstein Academy of Technology & Management Bhubaneswar, Khurda	al logy & Mi Khurda	និងខ្លួនកា	int									

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4.6.5. Academic & Event Calendar For Even Semester-2022-23

	lana di sa			ACA	DEN	VIIC &	ACADEMIC & EVENT CALENDAR FOR EVEN SEMESTER-2022-23	ARF	OR EVER	SEMESTI	3R-2	022-23				
			- 1			Eir	Einstein Academy of Technology & Management	echno	ology & M							
	MAR DAY ACTIVITY	Y	APR DAY	ACTIVITY	MAY DAY	DAY	ACTIVITY	JUN DAY		ACTIVITY .	JUL DAY			AUG DAY		ACTIVITY
	Wed	2002		Sat Utkal Divas	-	Mon		-	Thu		_	Sat Semester Exam -4th	Exam -4th Sem & 6th Sem	-	Tue	
Last .	Thu Class Starts of 4th sem & 6th sem	10.00	2 8	Sun	2	Tue		2	Fri		2	Sun		2 V	Wed	
	Fri	20.15	3 N	Mon	3	Wed	Class test-1 of 2nd Sem	3	Sat		3 1	Mon		3 I	Thu Semester	Semester Exam -2nd Sem
	Sat	4	4 T	Tue	4	Thu		4	Sun		4	Tue		4	Ŧi	
	Sun		2	Wed	5	Œ.	Buddha Purnima	5	Mon		2	Wed Semester Exa	Semester Exam -4th Sem & 6th Sem	5	Sat	
	Mon	-	1 9	Thu	9	Sat		9	Tue		9	Thu		9	Sun	
	Tue Dola Purnima	n Kilon	7	Fri Good Friday	7	Sun		7	Wed		7	Ή		7 N	Mon	
	Wed Holi	<i></i>	07	Sat	∞	Mon		00	Thu		00	Sat Closing date o	Closing date of Instruction of 2nd Sem	8	Tue	
	Thu	3	6	Sun	6	Tue		6	Fri		6	Sun		0	Wed	Dress Just Com
	Fi	-	10 N	Mon	10	Wed		10	Sat		10 N	Mon Semester Exa	Exam -4th Sem & 6th Sem	10 T	Thu	Semester Exam -zita sem
	Sat	_	=	Tue	11	Thu		11	Sun		=	Tue		=	迅	
	Sun	·-	12 W	Wed	12	Æ		12 1	Mon		12 V	Wed Class test-2	Class test-2 of 2nd Sem	12	Sat	
	Mon	-	13 I	Thu	13	Sat		13	Tue		13	Thu		13	Sun	
	Tue		14	Fri Maha Visuva Sankranti	14	Sun		14	Wed Pa	Pahili Raja	14	Fri Semester Exa	h Sem &	14 N	Mon	
	Wed	-	15	Sat	15	Mon	the Description of the state of	15	Thu Raja	Raja Sankranti	15	Sat	6th Sem	15 1	Tue Indepe	Independence Day
	Thu		16 S	Sun	16	Tue	Neview of Communes reports	16	Fri Feedba	Feedback on course	16	Sun		16 V	Wed	
	Fri	-	17 N	Mon	17	Wed		17	Sat coverage	coverage and attendance	17 N	Mon		17 T	Thu	
	Sat	-	18 T	Tue	18	Thu		18	Sun		18	Tue Semester Exa	Semester Exam -4th Sem & 6th Sem	18	Fri	
	Sun	-	19 V	Wed reedback on course coverage	19	FFi	Sabitri Amabasya	19	Mon		19 V	Wed		19	Sat	
	Mon Class Starts of 2nd sem		20 I	Thu	20	Sat		20	Tue Rat	Ratha Yatra	20 1	Thu		20 8	Sun	
	Tue	- 2	21	Fii	21	Sun		21	Wed Closing da	Closing date of Instruction of 4th Sem & 6th Sem	21	Fri		21 N	Mon Review	Review of Committee Reports
	Wed	2	22	Sat	22	Mon		22	Thu		22	Sat		22	Tue	
	Thu Review of Committee		23 S	Sun	23	Tue	- VC 230 - VG	23	Fri		23	Sun		23 V	Wed	
	Fri Reports	2	24 N		24	Wed	Se CHADLOG TE	24	Sat		24 N	Mon	200.1	24 I	Thu	
	Sat	2	25 I	Tue Class test-1 of 4th Sem & 6th Sem	25	Thu	S SHUBANESWAR S	25	Sun		25 1	Tue		25	Fri	
	Sun	6	26 W	Wed	26	迅	Mich Town	26 1	Mon		26 V	Wed Semester Ex	Semester Exam -2nd Sem	26	Sat	
	Mon	2	27 T	Thu	27	Sat	And the second second	27	Tue Class test-	Class test-2 of 4th Sem & 6th Sem	7 72	Thu		27 5	Sun	
	Tue	2	28]	Fi	28	Sun		28	Wed		28	Fri Moh	Moharnum	28 N	Mon	
	Wed	61	29	Sat	29	Mon		29	Thu		29	Sat Semester Ex	Semester Exam -2nd Sem	29	Tue	
	Thu Sri Ram Navami	er)	30 S	Sun	30	Tue		30	Fri Id	Id-ul-Zuha	30	Sun		30 V	Wed Rakh	Rakhya Bandhan
	Fri				31	Wed		3 S			31 N	Mon Semester Ex	Semester Exam -2nd Sem	31 I	Thu	
														1		