MOODBIDRI - 574 225
Affiliated to VTU, Belgaum and Approved by A.I.C.T.E., New Delhi

COURSE BOOK

(ACD - 08, ACD - 09, ACD - 10, ACD - 12, ACD - 13)

emester 6 th Sec	nestur 'A' Section
aubject with Code : <u>Con المتحاد</u>	tion Management and Entreprene
	TIME SLOT
Mon: 9:00 - 9:55 AM	Tue: 11:10 - 12:05 PM
Wed: 9:00 - 9:55 AM	Thu: 9:00-9:55 AM
Fri	Sat :



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225
Phone: 08258-262725, Fax: 08258-262726

VISION AND MISSION OF INSTITUTE

VISION STATEMENT

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

MISSION STATEMENT

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

Dr. Peter Fernandes PRINCIPAL

Alva's Inspired of Leage. & Technology, Mijar, MOODBIDRI - 574 225, D.K.



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

(DRAFT VERSION)

VISION OF THE DEPARTMENT

To become a leader in the field of Civil Engineering by imparting quality education in developing highly competent manpower and promote research to meet the current and future challenges in Civil Engineering.

MISSION OF THE DEPARTMENT

- To impart knowledge by creating conducive teaching-learning environment.
- To produce civil engineers of high caliber, technical skills and ethical values, to serve the society.
- To promote innovation in the minds of future engineers to face the challenges.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- To provide the students a strong foundation in fundamentals that will enable them to identify and solve real time problems in Civil engineering for Industries and Research activities.
- To develop abilities and talents, leading to creativity and productivity in professional and industrial field beyond the curriculum and thus enhance the employability skill.
- To explore and apply the modern engineering tools for planning, design, execution and maintenance of works those are technically and economically viable, and socially acceptable.

PROGRAM SPECIFIC OUTCOMES

- The graduates will be able to plan, analyze, design and execute cost effective Civil engineering structures without over exploitation of natural resources.
- The graduates will have the ability to take up employment, entrepreneurship, research and development for sustainable civil Society.
- The graduates will be able to pursue opportunities for personal and professional growth, higher studies and engage in lifelong learning in civil engineering profession.

Com

HOD H.O.D. Dept. of Civil Engineering Alva's Institute of Engg. & Technology Mijar, Moodbidii - 574 226



(A Unit of Alva's Education Foundation)

Shobhavana Campus, Mijar-574225, Moodbidri, D.K

Phone: 08258-262725, Fax: 08258-262726

Affiliated to VTU Belagavi and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

CALENDAR OF EVENTS (EVEN SEMESTER 2017-18) BE & MBA

VISION

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

MISSION

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community
- To inculcate the best engineering practices through transformative education
- To develop a knowledgeable individual for a dynamic industrial scenario
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society

Week	Month				Days				Activities
week	11011011	Mon	Tue	Wed	Thu	Fri	Sat	Sun	netivities
1					<u>1</u>	2	3	4	
2		5	6	7	8	9	<u>10</u>	11	1st : Commencement of Even semester BE 8th - 9th : Project Evaluation - Phase-II
3	FEB	12	13	14	15	16	17	18	10th : Commencement of II semester MBA
4	T DD	19	20	21	22	23	24	25	13th : Maha Shivaratri 26-28 Technical Talk
5		26	27	28					
6					1	2	3	4	
7		5	6	7	8	9	10	11	05th, 06th, 07st : I-IA Test for I year BE 25th : Ugadi Festival
8	MAR	12	13	14	15	16	17	18	08 rd -09 th : Project Evaluation – Phase-III 14-17 Technical Talk
9		19	20	21	22	23	24	25	26th, 27th, 28th : I-IA Test for II, III, & IV year BE
10		<u>26</u>	27	28	29	30	31		and II Sem MBA 29th: Mahaveer Jayanthi 30th: Good friday 31st: Submission of Review Paper
11								1	5 th -6 th : Final Project Evaluation
12		2	3	4	5	6	7	8	10th: Last date for Draft copy of project report 11th, 12th, 13th: II-IA Test for I-year BE
13	455	9	10	11	12	13	14	15	14 th : Dr. B.R Ambedkar Jayanthi
14	APR	16	17	18	19	20	21	22	16-19: Technical Talk 20th : Final Year BE Project Exhibition
15		23	24	25	26	27	28	29	26 th , 27 th , 28 th : II-IA Test for II, III, & IV year BE and II Sem MBA
16		30							30th: Final Project Report Submission
17			1	2	3	4	5	6	1st : May day/ Labour day 3rd , 4th , 5th : I-IA Test for IV Sem MBA
18		7	8	9	10	11	12	13	09-12 Technical Talk
19	MAY	14	15	16	17	18	19	20	17th, 18th, 19th : I-IA Test for I, II, III, & IV year BE and II Sem MBA
20		21	22	<u>23</u>	24	25	26	27	23 rd : Last Working Day of Even Sem BE
21		28	29	30	<u>31</u>				31st: Last Working Day of II Semester MBA *-Industrial Visit / Social Activity to be done before
22						1	2	3	*- Workshop/Certification
23		4	5	6	7	8	9	10	course/Conference to be done before June 2 nd
24	JUNE	11	12	13	14	15	16	17	4th , 5th, 6th : II-IA Test for IV Semester MBA
25		18	19	20	21	22	23	24	16 th : May day/ Labour day *-FDP to be conducted /attended from June
26		25	26	27	28	29	30		to June
27								1	5th, 6th, 7th: III-IA Test for IV Semester MBA
28	JULY	2	3	4	5	6	7	8	13 th 13 th : Last Working Day of IV Semester MBA
29		9	10	11	12	<u>13</u>			



Alva's Institute of Engineering & Technology
Shobhavana Campus, Mijar, Moodbidri, D.K – 574225
DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC CALENDER (2017-18)-EVEN

SL. NO	Department Activities	Dates
1.	Survey Camp	06 to 17 Jan 2018
2.	Certification Course	22 to 27 Jan 2018
3.	Certification Course	16 to 20 Jan 2018
4.	Commencement of even sem	01 Feb 2018
5.	Sports Day	17 Feb 2018
6.	Work Shop	27 Feb 2018
7.	Work Shop	29 Jan to 02 Feb 2018
8.	First-IA	26 to 28 Mar 2018
9.	Industrial Visit	17 and 18 April 2018
10.	Industrial visit	10 and 11 April 2018
11.	Second- IA	26 to 27 April 2018
12.	Third - IA	17 to 19 May 2018
13.	Last Working Day	23 May 2018

ALVA'S INSTITUTE OF ENGINEERING

MIJAR,

AND TECHNOLOGY

															MI.	JAR,	-	.,,,									
			ATTENDANCE CUM INTERNA											IAL	¥	иOODBIDRI - 574 225											
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9	112	Ragboverdra GrR	1	2	3	4	5	6	A	7	8	9	10	11		2.	- 1	-	-	+	19 A 2	+					
10	113	Seema Sladoppa Shinohalli	1	2	3	4	5	6	7	8	9	10	11	12				16 1	7 1	8 19	20 21 2	2 23	24 2.	5 26	27 2	8 29	30
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8 8

ALVA'S INSTITUTE OF ENGINEERINAND TECHNOLOGY

MIJ/ 100DBIDRI - 574 225 I In Test

udents tendence nducted 48 60

Subject : Constanction Management and

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Subject : Constantion Management & Entrep.

Staff Initials

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		Date / Month	%\°³	06/03	d
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2	035	Honshith HJ	1	2	Ŀ
3	045	M.D. Keerthi	A	1	1
4	046	Mallikovjuna	1	2	1
5	050	Mohammed Sheviet	1	2	1
6	072	Rakesh H	1	2	1
7	086	Shetty Siddesh Jayarana	1	2	1
8	In	Varsha BM	1	2	1
9	112	Ragborendra GR	1	2	1
10	113	Seema Siddoppa Shinohalli	1	2	
11	4ALISCVOOI	A.N. Yashworth	1	2	
12	003	Abbilash NM	1	2	
13	004	Adarsha A	,	2	
14	005	Alshwarya B	1	2	
15	007	AKNIA E	1	2	ļ
16	008	Akshatha M Chovan	1	2	
17	012	Arand PR	1	2	
18	013	Anonya M H	1	2	
19	015	Anusha Sunagad	/	2	
20	016	Anusree K Prodeep	,	2	
21	018	Aswakumaz A Bodmal	1	2	
22	0/9	Ashraya Shetty	1	2	
23	020	Ashwathanarayona MK	1	2	
24	021	Alkina Swiendron	A	1	
25	023	Basevaraj Kankanodi	,	2	
26	025	Bhargovi B	1	2	
27	026	Bhypathi L	1	2	
28	027	Chaitanya B 5	1	2	
29	o 28	с ноппавазарра S. Макапи	, ,	2	
30	070	A Sheney B	1	2	

: 6th semester 'A' Section

Others	Planned	Actual	Remarks :	
Special Classes	01	04		
Tutorials		-	18 1	and Section
Assignments	03+02	03		
Seminars				
IA Tests	01	01		
Portions Covered in the entire	03	03		,
Semester	Clarifier emplificity to be a constitution	100-	<i>/</i> ·	
Course Effectiveness				
Students Feedback				
Students Responce				
Result	No. of Studer	nts AP N	o. of Students Passed	% of Result
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Faculty in Charge

Signature of Principal (& Remarks if any)

HOD's Signature
H.D.D.

Dent. of Civil Engineering
Technology

Alva's Institut* 574 225
Mijar, Woodwidri - 574 225



Shobhavana Campus, Mijar, Moodabidri, Mangalore Taluk, D.K – 574225 Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

INDIVIDUAL TIMETABLE (EVEN SEMESTER 2017-18)

									*	
Name of the F	aculty	Mr. Rames	h R	ao B. (RRB)			With Effec	t From: 05/02	2/2018	
Period	1	2		3	4	Т	5	6	7	
Time . Day	09.00 - 09.55	09.55 – 10.50		11.10 - 12.05 -	12.05 - 01.00		02.00 – 03.00	03.00 -	04.00 - 05.00	No. of Units
Monday	CME (6A)		T			N L	03.00	04.00		2
Tuesday	,		Α	CME (6A)	·	С	EXSY	AB: A1 & B1 (6 A&B)	ВАТСН	5
Wednesday	CME (6A)		B R	G (8.		В		SEMINAR (8B)		4.5
Thursday	CME (6A)		E	GD (8B)	٠	R E		SEMINAR (8A)	·,	4
Friday			K			K			SEMINAR (6A)	.5
Saturday	i.	.FM 8	& HI	M LAB: A1 BA (4A)	TCH			, 1	,	3
Other Activitie SURVEYING PR	es: STUDENT : ACTICE LABO	SEMINAR/DE PRATORY IN-C	BAT	E/GROUP DIS	SCUSSION, E	XTEI	NSIVE SURVE	YING CAMP	COORDINATIO	DN,
			• • • • •						otal Units*	19

* EXCLUDING OTHER ACTIVITIES

H.O.D.

Dept. of Civil Engineering Alva's Institute of Engg. & Technology Mijar, Moodbidri - 574 225

HOD

PRINCIPAL

Date: 05/02/2018



Shobhavana Campus, Mijar, Moodbidri, D.K - 574225 Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

Time Table with effect from 29/01/2018

Acade	Academic Year Scheme			nester		Section	R	oom No	Class Coordinator		
201	17-18	2015		VI		A		505	Mrs. 1	Rashmi H	
Time	9.00 To 9.55	9.55 To 10.50	10.50 To 11.10	11.10 To 12.05		12.05 To 1.00	1.00 To 2.00	2.00 To 3.00	3.00 To 4.00	4.00 To 5.00	
мои	CME (RRB)	WSTE (SWT)		SWM/ABM (SYS/ADT)		HE (SKS)		DSSE (RMH)	WRM (VDS)	Tutorial Class	
TUE	WSTE (SWT)	DSSE (RMH)	В	CME (RRB)		WRM (VDS)	L			(HMS/RRB) H (SKS/SK)	
WED	CME (RRB)	Aptitude(L) (SHK/AKP)	R E	HE (SKS)		SWM/ABM (SYS/ADT)	U N	WRM (VDS)	MIN	I PROJECT	
THU	CME (RRB)	WSTE (SWT)	A	DSSE (RMH)		SWM/ABM (SYS/ADT)	С	1	A1 BATCH (A2 BATCH (
FRI	DSSE (RMH)	SWM/ABM (SYS/ADT)	K	(VDS)		GATE	н	HE (SKS)	MINI PROJECT	Seminar	
SAT	DSSE (RMH)	Aptitude(T) (AHL)		W/STE (SWT)		HE (SKS)		<u> </u>			
	-		A	llocation	n of	f Subjects		*	_		
		Subjects					St	affs		Staff Code	
СМЕ	15CV61	Construction M Entrepreneursh		t and		Mr.Ramesh R		RRB			
DSSE	15CV62	Design Of Steel	Structural	Elements		Mrs.Rashmi H		RMH			
(15CV63	Highway Engine				Mr.Shankargi		SKS			
WSTE	15CV64	Water Supply as Engineering		ent		Mr.Swathi		SWT			
SWM/ ABM	15CV651 15CV653	Solid Waste Ma Alternative Build		ials		Mr.Sanjay S Mr.Adithya Ta	ntry			SYS ADT	
WRM	15CV661	Water Resource	s Managen	nent		Mrs.Veena D S	avanth			VDS	
SA LAB	15CVL67	Software Applica	ation Lab			Mrs.Veena D S Mrs.Ashwini N	avanth/ ayak/ M	Mr.Adithya B r.Arun Kumar	Sheony G.S	VDS/ABS ANK/AGS	
EXSY LAB	15CVL68	Extensive Survey		,	بال	Mr.H.M.Swam Mr. Shankargir	K.S/ M			HMS/RRB SKS/SK	
APTITUDE		Ms.Aishwarya La	kshmi/ Ms	.Akshatha	S.P.	/ Ms.Shwetha		UDE(T)- Theor UDE(L)- Lab	,	AHL/AKP/ SHK	
GATE		RRB, SHK, HMS, I	IT, AGS, SK	, ADT, AB	s	4					
SEMINAR		ALL FREE FACULT	IES		į.						

H.O.D. pept. of Civil Engineering

	Construction Management						
As per C	hoice Based Credit System	(CBCS) sche	me]				
Subject Code	SEMESTER:VI 15CV61	IA M	arks	20			
Number of Lecture Hours/Week	04		Marks	80			
Total Number of Lecture Hours	50		Hours	03			
CREDITS -			al Marks - 100				
Course objectives: This course will enab		1	100				
 Understand the concept of planning, and use of project information necess Inculcate Human values to grow as re Keep up ethical conduct and discharg 	scheduling, cost and qualit ary for construction project esponsible human beings wi			ction, organization			
Modi			Teaching Hours	Revised Bloom's Taxonomy (RBT) Level			
Module -1	a to a to	."					
Management: Characteristics of manager importance and purpose of planning proced Construction Project Formulation: Introproject organization, management function Construction Planning and Scheduling: work breakdown structure, Grant Chart, and activity based and its critical path-crition arrow and activity on node, introduction Module -2	ss, types of plans oduction to construction mans, management styles Introduction, types of proj preparation of network diag ical path method, concept of	ect plans, gram- event of activity	10 hours	L1,L2,L3			
Resource Management Manpower: Bas class of labour, wages and statutory requir productivity, factors affecting labour outp Construction Equipments: Classification of productivity for excavator, dozer, comp mixer and plants, selection of construction matching equipments, methods of calculate concept of maintenance of plant and mach Materials: Material management function Module -3	ement, labour production ra ut or productivity. In of construction equipment actors, graders, pavers, dural equipment and basic conceing depreciation, replacem- inery	e, estimation npers, transit	10 Hours	L1,L2,L3			
Construction Quality, Safety and Huma Construction quality process, inspection, quality quality, ISO standards. Introduction to concept IISE: Introduction to concepts of health, safety construction, importance of safety in construct excavation, drilling and blasting, hot bitumino other equipment, storage of materials. Site tool concept about Risks in Construction managem Morals, values and ethics, integrity, trustworth ethics, professional duties, professional and incinformation, conflict of interest confidentiality blowing.	ty control and quality assurance of Total quality management of and environment as applicable ion, safety measures to be takens works, scaffolding, ladder, it box, meeting, safety campaignent. Increase, work ethics, need of englividual rights, confidential and	le to n during; form work and n. Basic lineering d proprietary	10 Hours	L1,L2,L3			
Module -4							
Introduction to Engineering Economy: Principles of engineering economics, conc problem solving and decision making Interest and time value of money: concept interest formula for: single payment, equal Nominal and effective interest rates, defer Comparison of alternatives: Present worth of return methods	of simple and compound in payment and uniform grad red annuities, capitalized co , annual equivalent, capitali	nterest, lient series. est	10 Hours	L1,L2,L3			

Entrepreneurship: Evolution of the concept, functions of an entrepreneur, concepts of entrepreneurship, stages in entrepreneurial process, different sources of finance for entrepreneur, central and state level financial institutions Micro, Small and Medium Enterprises (MSME): definition, characteristics, objectives, scope, role of MSME in economic development, advantages of MSME, Introduction to different schemes: TECKSOK, KIADB, KSSIDC, DIC, Single Window Agency: SISI, NSIC, SIDBI, KSFC Business Planning Process: Business planning process, marketing plan, financial plan, project report and feasibility study, guidelines for preparation of model project report for starting a new venture. Introduction to international entrepreneurship opportunities, entry in to international business, exporting, direct	10 Hours	L1,L2,L3
foreign investment, venture capital		

Course outcomes: After studying this course, students will be able to:

1. Understand the construction management process.

2. Understand and solve variety of issues that are encountered by every professional in discharging professional

Fulfill the professional obligations effectively with global outlook

Program Objectives:

Engg. Economica 4. Be understand the

Engineering knowledge

5. understand the concepts

Entre Priencestip & Contraction

planning priory.

Problem analysis

Interpretation of data

Question paper pattern:

- The question paper will have 5 modules comprising of ten questions. Each full question carrying 16 marks
- There will be two full questions (with a maximum of three subdivisions, if necessary) from each module.
- Each full question shall cover the topics as a module
- The students shall answer five full questions, selecting one full question from each module. If more than one question is answered in modules, best answer will be considered for the award of marks limiting one full question answer in each module.

Text Books:

- 1. P C Tripathi and P N Reddy, "Principles of Management", Tata McGraw-Hill Education
- 2. Chitkara, K.K, "Construction Project Management: Planning Scheduling and Control", Tata McGraw-Hill Publishing Company, New Delhi.
- 3. Poornima M. Charantimath, "Entrepreneurship Development and Small Business Enterprise", Dorling Kinderseley (India) Pvt. Ltd., Licensees of Pearson Education
- Bureau of Indian standards IS 7272

Reference Books:

- Robert L Peurifoy, Clifford J. Schexnayder, Aviad Shapira, Robert Schmitt, "Construction Planning, Equipment, and Methods (Civil Engineering), McGraw-Hill Education
- Harold Koontz, Heinz Weihrich, "Essentials of Management: An International, Innovation, and Leadership perspective", T.M.H. Edition, New Delhi
- Frank Harris, Ronald McCaffer with Francis Edum-Fotwe, "Modern Construction Management", Wiley-
- Mike Martin, Roland Schinzinger, "Ethics in Engineering", McGraw-Hill Education
- Chris Hendrickson and Tung Au, "Project Management for Construction Fundamentals Concepts for Owners, Engineers, Architects and Builders", Prentice Hall, Pitsburgh
- James L.Riggs, David D. Bedworth, Sabah U. Randhawa "Engineerng Economics" Tata Mc Graw hill

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List of Course Outcomes

Sub: Construction Management & Entrepreneurship

Sub Code: 15CV61

Semester/Section: 6 A

CO Number	CO Details
1	Understand the construction management process
2	Understand and solve variety of issues that are encountered by every
	professional in discharging professional duties
3	Fulfill the professional obligations effectively with global outlook
4	Understand the Engineering Economics.
5	Understand the concepts of Entrepreneurship and Construction planning
	process.

HOD

H.O.D.

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Technology
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Mijar, Moodbidri - 574 225



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List of Program Outcomes

Sub: Construction Management & Entrepreneurship

Sub Code: 15CV61

Semester/ Section: 6 A

PO Number	Title
PO 1	Engineering knowledge
PO 2	Problem analysis
PO 3	Design/development of solutions
PO 4	Conduct investigations of complex problems
PO 5	Modern tool usage
PO 6	The engineer and society
PO 7	Environment and sustainability
8 O9	Ethics
PO 9	Individual and team work
PO 10	Communication
PO 11	Project management and finance
PO 12	Life-long learning

H.O.D.



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CO-PO Mapping Matrix

Sub: Construction Management & Entrepreneurship

Sub Code: 15CV61

Semester/ Section: 6 A

CO-PO

PO

Status: TODO

00	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	m	
001	MODERATE V	MODERATE V	NO MAPPING. Y	NO MAPPING ▼	MODERATE ▼	SUGHT ▼	NO MAPPING ▼	NO MAPPING ▼		MODERATE ▼	PO 11	PO 12 SUG-7
							MODERATE ▼					
ಣಾ	MODERATE •	MOCERATE V	MODERATE ▼	MODERATE ▼	NO MAPPING ▼	MODERATE ▼	NO MAPPING ▼	SUGHT ▼	SLIGHT ▼	2JG+7 ▼	HIGH ▼	SUG-77
							SHGHT ¥					
CO 5	NO MAPPING ▼	NO MARRING T	NO MAPPING T	NO MAPPING ▼	NO MASPING ¥	NO MAPPING ▼	NO MAPPING					

Dept of Civil Engineering Notice of Civil Engineering STA 225

AIET		Lesson Plan	ı & Ex	ecution		Formatissue N Rev. N	Vo. 0				
Name of t	Name of the faculty				RAMESH RAO B						
Semester	and Section	on		6th Sem	estor - A	' Sec	lion				
Date of Co	ommencer	nent	6	05- 02-	2018						
Last Work	ing Day of	the Semester	2	6-05-	2018						
Source Ma	aterials Lis	t		-							
1. Chif	kæna	kk, Dn. u.k Stoiveyera	Con	हर्गमा (र्गाट इस्मामा (र्गाट	n Psioject Planding	MC 5 M	nagene	ent			
2. p.c.	Tripat	thi & P.N. Reddy	P	zin ci Ple	d Mon	agem	ent				
		Pews foy	1		m Planning	•		ts			
4. S.K	· Shoon	na	Co	nstowc _{li}	on Equipme	rts g	Metr	ods			
5. Poos	nima ,	м.с	En	tnepren	еоукр Вече	Lopme	at g :	8.B.E			
Subject N	ame	Constauction	Management & Entrepreneurstip					•			
	Plan					Executi	on				
Period	Date Topics to be covered		needed		Topics Cover	red ·	Date	Source Material Referred			
01	o5k2118	Management - Indicharacteristics & management f functions of by	2,43	1,2,	Management - Chanactwent f management - functions of management -	rent		1,2			
02	06/02/18	monogement Jen postance an puripose of Plan priocess	d oving	1,2	gmpontona prose g plonning proces	4	_{૦6} એ ફ	1,2			
03	0710218	Types of plans and project Sommulation		2, 1	Typy of Pla construction Manageme		07/02/18	1,2			
04	08/02/18	Introduction to Construction management	-	1,2	project engo. and manage functions g Management Styly	rment	08/2/18	1,2			

		Plan	Execution				
Period	Date	Topics to be covered	Source Material	Topics Covered	Date	Source Material Referred	
05	12/02/18	Project organization Management L, 2 functions	needed	Introduction to constauction Planning	12/02/18		
06	14/02/18	Managament	1,2	Typy y Project plony f work breakelown struckny	12/02/18	1	
04		Typy of project	1,2	work breakdown	14102118	1,2	
08	19/02/18	paeperation of network diagram - event f activity based & CPM	1,2,3	Grants Ohart Preparation of nations diagram	12/02/18	1,2	
09	20/02/18	Activity or node	1,2	Pose perodion of network diagram and Bar Chart	19/02/2018	1	
10	21102118	Scheduling tools	I, 2	Preputation of network diagramy Events activity bosed	21/02/18	1,2,	
n	22/02/18	Resource Management Manpown- Bayic 2	1,2,3	Prepenation of retwork diagrams Event 9 activity based	26/02/18	1,2	
12	26/02/18	wage g statutory orequirements, labour Production f productivity	1, 2, 3, 4	Covitical path method	28/02/18	1,2	
13	27/02/18	Factory assecting paboun output on Productivity 1:12	1,2,3,4	Covitical Path Muthod ouloded rumericals	01/03/18	1,2	
14	28/02/18	ConclowClion equipments	1,2,3	Rescore Monagement Monpown - Bayic Corcepts	05 03/18	1,2	
15	01/03/18	estimation of productivity for excavation dozu, f compactors 13,2	1,2,3	Class of losour upgers Statutory sonirements Labour producting	06/03/18	1,2	
16	05/03/18	Gundey, povey, dumpy, tononyit muxey & plants	2,3	Factory affecting	07/03 ¹¹⁵	1,2	
17	Pelo3/18	Selection of Controdion equipments of bayic by Consept on modeling equa	,,	Constaution equipments of Classification.	13/03/15	1,4	

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	.1	Plan		Execut	ion	
Period	Date	Topics to be covered	'Source Material needed	Topics Covered	Date	Source Material Referred
18	ed 1601 18	Methody of calculating depose ciation, replacement model concept 13.3	2,3.4	Selection of construction cqwipments	14/03/18	1,4
19	81180	Mointenance of plant and macking L2,3	2,3,4	Bagic Concepty Matching Equipments	15/03/18	1.4
20	12/03/18	1 2	2,3,4	Mountamence of plant & Machiney	19/8/18	1,4
21	13103/18	construction quality process, inspection quality control, by	1,2,3,4	Modway monoge -mint and Inventory Management	20 3 18	1,4
22 (14/03/18	Quality assumance,	1,2,4	construction quality procys 4 Inspection	21/03/18	1, 2
23	12/03/18.	Introduction to Total quality manage -ment	2,3,4	Quality control of Quality assurance	22/03/18	
24	19103118	gratuoduction to concepts of health f	2, 3, 4	COSTO of quality of Iso Standards. Introduction to Total quality Mongl.	०२/०५/१८	1,3
2.5	20/03/18	envisionment of application of south	1,2,4	Indroduction to concepts of health of Sayety	œ 04118	1,2
26	21/03/18	Safety measure to be taken during 2 excovation	1,2,3,4	Env. of applicable to conference tion. Sofety maguny to be taken during conference tion	04 04 18	!
27	22/03/18	a ellina Ablantina	1,2,3,5	Dou lling of blogging	05/04118	1
28	02/04/18	молаў, valvy f ethics, integrity work ethics	1,2,3	Monaly, value of ctives in Engg.	०१/०४/१४	
29	03/04/18	projegional alutis &	1,2,3	Ethical PorineiPly of Rowseysional Ethicy	10/04/18	1
30	o4/04/18	gidds of bridg, price fraing, whistle blowing	1,2,4	Professional Ethie, Gists, Briby, Brice Sizing Whistle Blowing	विविधा	1,2

	T	Plan		Exec	cution	
Period	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Materia Referred
31	05/04/18	Intereduction to Engg Economy principlys, Micro-Macro Analysis	1,2,3,4	Gists, Bouberg	12/04/1	
32	09/04/18	problem solving & decision moking	1,2,	M.C.Q Teg+-		8 1,2,3,
33	10104/18	Intuest 4 time value of money	2,3,	Induction to Engg Economy Pownciply Micno-Macro Anal	17/04/2	8 1,3
34	1,104118	compound interest of July + Yaty Laty	2,3,4	Posoblem solving Decision Making	23 04	1,-4
35	12/04/18		1,2,3	Integs of sime value of money	23/04/18	3,4
36	16 loul18.		1, 2, 4	concept of simple of compound interest interes	23/04/18	1/3
37	14/04/18		1,4	Single sequioles Payment method funtion	24104118	1,2,3
38	18/04/18	L,, 31	1,2,3	Nominal of eggedin	24/04/18	1,4
39	19/04/18	capitalized and state of states of methods	1,3,5	Copitalized Cons Companision.	25 ⁽⁰⁴¹¹⁸	2,4
40	23/04/18	Minimum cost analysis f break even analysis	1,2,3.5		26loul 18	1,2, 3,4,5 q.ppg.
	24/04/16	Entrepriencoskip - evolution of the coner functions	1,2,3,5	propert worth of	zoloul u	Ļ
42	25/04/18	Stages, souncy of	1,5	copitalized grate of ration methody.	s douls	3,4
43	30/0U/1B	Cerdinal 4 State loval financial institution	2,5	Rate of Return Methods	07/05/18	1,2,4

		Plan		Executi	on	
Period	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
44	021.8	Micro, small f Medium God, dyinitim Chanacleus Has, Objectly	1,5	Minimum cast Analysis + Problems	8/05/B	
45	,31°51 18	Scope & stole of Mame of Indraduction to 1313 different Schemy	1,5	Break Even Analysis.	odloslk	1,3,4
46	o71.05/18		1,5	Endaprenewyap, concepts f souncy of sinonce	10/05/18	1,5
47	08/05/18	Bujing planning 5 4 ? procy monkding Plan Jinancial Plan	5,4	Central & State 1 evel financial Tytitulion MSME	१५१० इ.१४	1,8
48	09/06/18	Guideling 13.4	415	Scope of note of MSME of Indroduce -tion to obtained scheme	15/05/18	1,4,5
49	10/05/18.	Introduction to Int. codo. opportunity, entry 10 to International Styling	3,415	Introduction to different Schemer.	102/18	1,5
50	14105/18	venture capital	1,2,5	Bylnys Ploming process Morketing Plon	ruoslu	1,2
51		L2, L3, J		I.A Test Conducted	181° ^{5 18}	1,2,5
52	, wi			Project-neport fegitility Study	22/05/18	1,2,3
53				Ind Indunation Control Opportanity	23105\18	4,5
54				Exporting, Dinect, Invys Ventus Capital	24105118	415
				C	401	1
					,	13

Others	Planned	Act	ıal	Remarks:	
Special Classes	01	04			
Tutorials	_	_		, , , ,	
Assignments	03+02	03	3		11
Seminars	01	01			
IA Tests	03	03		*	
Portions Covered in the entire Semester		100	-/.		
Course Effectiveness	and .			At the second se	
Students Feedback					
Students Responce				-	
Result	No. of Studer	its AP	No. c	of Students Passed	% of Result
Faculty in Charge	F		₩ q		6 8
Signature of Principal (& Remarks	s if any)			HOD's Si H Dent. of Ci Dent. of Ci Mijar, Weo	gnature D.D. vil Engineering vil Engineering vingg: & Technology dwidri - 574 225



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DEPARTMENT OF CIVIL ENGINEERING

VI SEMESTER "A" - SECTION STUDENTS LIST

SL.NO.	USN	NAME OF THE STUDENTS
1	4AL14CV013	ANNAPPA P SANI
2	4AL14CV035	HARSHITH.H.J
3	4AL14CV045	M D KEERTHI
4	4AL14CV046	MALLIKARJUNA
5	4AL14CV050	MOHAMMED SHERIEF
6	4AL14CV072	RAKESH H
7	4AL14CV086	SHETTY SIDDESH JAYARAMA
8	4AL14CV111	VARSHA B M
9	4AL14CV112	RAGHAVENDRA G R
10	4AL14CV113	SEEMA SIDDAPPA SHIRAHATTI
11	4AL15CV001	A N YASHWANTH
12	4AL15CV003	ABHILASH N M
13	4AL15CV004	ADARSHA A
14	4AL15CV005	AISHWARYA D
15	4AL15CV007	AKHILA E
16	4AL15CV008	AKSHATHA M CHAVAN
17	4AL15CV012	ANAND P R
18	4AL15CV013	ANANYA M H
19	4AL15CV015	ANUSHA SUNAGAD
20	4AL15CV016	ANUSREE K PRADEEP
21	4AL15CV018	ARUNKUMAR A BADMAL
22	4AL15CV019	ASHRAYA SHETTY
23	4AL15CV020	ASHWATHA NARAYANA M K
24	4AL15CV021	ATHIRA SURENDRAN
25	4AL15CV023	BASAVARAJ KANKANODI
26	4AL15CV025	BHARGAVI B
27	4AL15CV026	BHUPATHI L
28	4AL15CV027	CHAITANYA B S
29	4AL15CV028	CHANNANASAPPA S MAKANUR
30	4AL15CV030	DAMODHAR SHENOY P
31	4AL15CV032	GOVIND RAJ H R
32	4AL15CV033	GURU PRASAD M
33	4AL15CV034	HANUMANTH Y MADAR
34	4AL15CV035	HARSHITA RYAGI
35	4AL15CV037	JAGADEESH KRISHNA JOGI

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DEPARTMENT OF CIVIL ENGINEERING

SL.NO.	USN	NAME OF THE STUDENTS
36	4AL15CV038	JAGADEESHA
37	4AL15CV039	ЈУОТНІ S
38	4AL15CV041	KARIGOWDA
39	4AL15CV042	KARTHIK N S
40	4AL15CV046	LEISHEMBA SOIBAM
41	4AL15CV047	MADHU BHAJANTRI
42	4AL15CV048	MAHAMMED JAKEER K
43	4AL15CV049	MAHAMMADRASOOL AWATI
44	4AL15CV050	MAHESH K N
45	4AL15CV053	MANJULA PARAPPA KURBET
46	4AL15CV054	MANJUNATH M
47	4AL15CV055	MANJUNATHA K S
48	4AL15CV056	MANOJ KUMAR H M
49	4AL15CV057	MANU P
50	4AL15CV058	MEGHANA C G
51	4AL15CV060	MOHANKUMAR SHIVAPPA PUJAR

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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI DEPARTMENT OF CIVIL ENGINEERING I - INTERNAL ASSESSMENT

Semester: 6

Subject: CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP(15CV61)

Max Marks: 30

Faculty: Mr Sooraj Kumar /Mx. Romesh Roo B

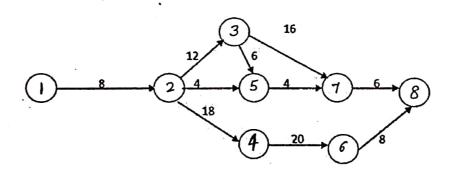
Time: 09:30 AM - 11:00 AM

- Date: 26 Mar 2018

Instructions to students:

Answer any 2 full questions

Question#	Question	Marks	со	BT/CL
1 a	Explain management? and different functions of management	6	CO1	L2
1 b	Discuss different management styles and with a neat diagram explain Work breakdown structure.	9	CO1	L2
	OR			
2 a	A network of a project is given below, number the events and calculate the total project duration, EST,EFT,LST,LFT, and also calculate total float and identify the critical path.	10	CO1	L4



2 b	What are the different types of plans and explain objectives, strategy and policy	5	CO1 L2
3 a	Explain labour productivity and write different factors affecting labour productivity.	8	CO2 L2
3 b	Discuss material management? explain its importance in construction	7	CO2 L2
	OR		
4 a	Write a short nnote on class of labour, wages & Statutory requirements	6	CO2 L2
4 b	a) Explain in detail the classification of construction equipments. b) Explain Owning cost & Operaing cost.	9	CO2 L2

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY: MIJAR, MOODBIDRI

DEPARTMENT OF CIVIL ENGINEERING

Construction Management of Entre preneursup Subject code: 150461 Subject Title:

Q.NO	Description of Answers	
0	Management is the process of dealing with or controlling	Marks
0	things on People.	
	Management include the activities of setting the strategy	* +
	of an argonization of coordinating the efforts of 16	ĺ
3	employee to accomplish its objective through the	M M
i	application of available regovery, such a dinoncial	OIW
	notural, betterological of human organica.	-
4	Function of Monagements.	
i	Plonning	ļ
	Controlling)	. .
	Monogement Sunctions Congonizing	-
نم		
	Dinecting Stassing O	1×05
	Planning: Setting up of goody fobjective	05M
0:	ngonizing. Bowings oryonocy together to achieve the goody	
. <u>s</u>	toysing: Alloument of stay, workey flabours.	Jan Va
	and Diorecting: Letting Stay Isnow what need to be done	APP ALL
100	ordnolling: To all the processes that leader create to marich -	otal Marky

Q.No.	Answer/Solution	Mar
D6	Diffuent typy of monogement Styly	<u>. </u>
	Autoconatic Challic Monagement by walking consund Consultative Laissez-faire Constant feed back from employ Persusyive Participatory DemoCradic Team work	
	Autoconatic: A Monager takey complete Control of reprogribility for a state of the decising 18 made by keep in mind the interest of its employer, developing dealback some persuasive: The monager controls the whole decision making proof in a difference of the entering everyone's consensing on decisions. way, that it is believe in giving the workey full dreedom to they can develop their own idea of strateging to enhance their performmant of success of an angonization.	ino(T
1.00	aissez -fource: Encouraging the substanty to develop their own reative idea f. Strategy to prosper in their suppective	5Ma
الم الم	OAK breakdown structury.	
	managrable action sections.	OI Ma
	Deliverable ontented hierarchical decomposition of the sonk to be executed by the project team	
Ne	at block diada	Mon ky

/									
/6.			Per Linerane (salinose	Answer/So	lution	de see of chicken			Marks
	E. 27 /	SET LOT. L	CT 4 m						
Ø	707, 2	EFT, LST, L	Pr gy	otal 81	oai!				
		00			20 32			·	
		(I) 8	—X2]	4	6 4	16 36	<u>48</u> 6		
·			18181	——X:	5) - 4 6[44]	7		3	
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		•		*(4)		76	8		
.6	0011	·	,	26	26]	46 46			
o	Activity	Dunation	EST	EFT	L57	LFI	TOtal Float	I INCINIONI	\$
	1-2	8	0.	8	0	8	O	critical	
	2-3	12	8	20	20	32_	/2		
	2-4	18	8	26	8	26	0	Critical	
	2-5	4.	8	12	40	44	32	0021000	01Each
	3-5	6	20	26	38	94	18		O 6 mile
- 1.	3-7	16	20 .	36	32	48	/2		O6 Maily
- 1	4-6	20	26	46	26	46	0	critical	-
	> -7	4	26	30	44	48		Coberdae	
9	G-8 ·	8	46	54	46	- 1	18		•
. 7	1-8	6	36.	.	1	54	0	critical	-
		,	. 40	42	48	54	/2		
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	Critical	Poth:	1-2-	4-6-	8	Í	. 1	1 -	Maily
•	•								

≀.No.	Answer/Solution	Marks
) <u>@</u>	TYPY & Plony.	
	Standing Plans: - ongoing Plans that provide guidence don	
	activity personned repeatedly c procedury /policiy/method	קאשוב אן
	Single use plan: A one-time plan specifically algigned to	
	meet heed of a unique situation. C To achieve Specific	
	Objective. C programmy / Budgets / strategie / projects) etc.	'n
	Objectivy: Objectivy on gody of the ongovization one the	
	endy which every activity of the longarization aimed it. Objectivy - a prience wisite for planning.	· ·
1		-
	Strategiy. The turn strategy way yed in order to eloborate the play that were made by keeping invited	.
	elobonate the prog of the adversary.	
- 1		
	volleig: Can be dycribed by the genual Statements or understandings that provides guidance to the managery	01 × 05
	in decision making. Policiy one standing Plany	= 05 mank
	that guide the management that is engaged in	
	monaginal dunction.	
	il il economic growth	01 Mark
	Lobows productivity. Is a mediate of good fravily within a country, measing the amount of good fravily	

No.	
Answer/Solution	_ · Marks
@ Factory Offering labour productivity.	
Overtime Concurrent Operation	7
Manale of Attitudy Absentecision of tun	
Chapting of - Mobilize Demobilize	,
To int a committee of the property of	+ Explanation Any 1
Benevicial and	poird
Charles	- ,
Wentley of Con.	Puvision
Weatherf Season change Shift works	
Toolf East Shortog Alterating, St.	Pagened on Rotating
, and the second	scheduly etc.
Material Monagment:	•
Matural management dealy with controls the \$100 of matural in a latin	ing of more than
the \$1000 g matural in relation to c.	none y in vorint
like alcomond, pricy; ovailability, qua	life delivery
Schiduly ctc.	OI MON
Importance of motivaly managements.	
1) The motival cost control of the tot	al cost 1s trept at
a negronoble sevel.	
D The cost of indirect maturaly is k	pt under
The egit is properly utilized because	
bruck down dut to late supply	se There no

No. Answer/Solution .	Marks
Pactory affecting labour productivity.	-
Overtime Concurrent Operating	:
Marale & Attitudy Absentecision of turnova	
Fatigue Mobilize / Demobilize	
Stacking of Triady Estrong / Omnission + Explanation	n Any 10
Joint Occupancy Start 1576p	points.
Beneficial occupancy Reaggignment of manpower	od maria
Hazarday work area Dilution of Eupervision	
Weather of Segron change Shiff works	
Tooly Egpt Shortog Alterrating, Staggered on Rotating Work Scheduly etc.	
Material Monagment:	
Motival management dealy with controlling of negulating	
the flow of matural in relation to change in variable	
like demand, pricy; ovailability, quality, delliny (Schiduly etc.	OIMONE
Importance of motivaly managements.	
1) The motival cost content of the total cost is kept at	
a negronoble sevel.	
1) The cost of indirect maturaly is kept under check.	
3) The eget 19 properly utilized because there are no	g se et eg
bruck down dut to late supply of matrials.	e Prigi

Q.No.	Answer/Solution	Ma.
	1) The 1088 of direct labour 15 ovoided.	
	3) The wastages of matrials at the stage of storage of	
	well as their movement is kept under control.	
	The supply of motival is prompt of late delivery instancy are only sew.	
6	The invydments on matrials one kept undu control	
	ey under g over stocking is ovoided.	1
- 1) congestion in the Stone & at dissuent stage of	01x06
	manyacturing is ovoided.	- Of 1,34
	•	
@ @[7)	Clay of labours.	
. 0	lays of labour are the people employed for wagy, specially	:
	monual-lebour occupation of industrial world	.•
(ii	wogl:	•
	wage is monetary compensation (remuneration) paid by	
0	n employu to employu in oxchange for workdome.	()
-	\mathbf{A} the \mathbf{A} mater $\mathbf{A}\mathbf{A}$ $\mathbf{A}\mathbf{A}\mathbf{A}\mathbf{A}\mathbf{A}\mathbf{A}\mathbf{A}\mathbf{A}\mathbf{A}\mathbf{A}$	02×1
. -9	Prese nate.	06 Мол
177	Statutory requirements.	
: 5	latitory orter to law Parced to	
	orule issued	
	ga State / Central govt	•
Si	atitory requirements are those requirements which are	
*	applicable by virutue of law enacted by the gove".	

0.	Answer/Solution	Marks
5)	Claysification of conferention equipments.	
		V
	1) Excovation of Loading 1 Epoth moving Eapt	
	1 Compaction of Grading D Hauling Egpt	
	Dow'lling of 13 layting 19 140 1841ing EAPH	
	1 Listing of Enecting @ conveying eaps	
	5 Mixing of paving & Aggregate of concrete production	C9 PG
)	@ Pile driving E9/24	
	A Tunnding of stock blowing / drilling	9 E9P#
	1 Pumping of dewaturn Egpts	
)	+ Explonation + Explonation cost of owneysp.	07 Many
	punchaje price	
	Finance / Intuy+ cost	
•	Insurance	
	Regale Povice / rejidual value	OIX O
	opuating costs.	= 02 M
•	cost of full	
	cost of lubricants	
•	Cost of spare parts.	
	Repour cast	1
	Operators wagy etc.	

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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI DEPARTMENT OF CIVIL ENGINEERING

II - INTERNAL ASSESSMENT

Semester: 6

Subject: CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP(15CV61)

Max Marks: 30

Faculty: Mr Ramesh Rao B /MT. Soory Kumon

Date: 26 Apr 2018

Time: 09:30 AM - 11:00 AM

	to students : 2 full question(s)			
Question#	Question	Marks	со	BT/CL
1 a	Explain briefly the purpose of inspection and different stages of inspection.	7	coz	L2
1 b	Explain briefly a) Quality Control, b) ISO standard , c) Total quality management $\&$ d) Quality Assurance.	8	coz	L2
	OR			
2 a	Explain in detail a) Morals, b) Values , c) Ethics, d) Integrity & e) Trustworthiness.	8	co3	L2
2 b	Explain in detail the following a) Gifts & Bribes b) Price fixing c) Whistle blowing & its types	7	coz	L2
3 a	Explain in detail the safety measures to be taken during a) Earthwork excavation b) Drilling & Blasting c) Hot bituminous work.	9	coz	L2
3 b	Write a detailed note on a)importance of safety in construction, b)Personal Protective Equipments and its maintanence in construction site c) Safety through Legislation .	6	CO2	L2
	OR			
4 a	Define and Explain a) Engineering Economics b) Micro Economics c) Macro Economics d) Time value of Money e) Cash flow concepts	5	COB	L2
4 b	An Industry has taken a loan of Rs 50,000 with an interest rate of 15% for a period of 6 months. Determine the future amount at the end of loan period by using Ordinary simple interest & Exact simple interest method.	4	coty	L3
4 c	Determine the effective interest rate for a nominal annual interest of 10.5%, that is compounded. a) Daily b) Monthly c) Quarterly	6	cost	. L3

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Dop!. of Civil Engineering

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Shobhavana Campus, Mijar, Moodabidri, Mangalore Taluk, D.K - 574225 Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

SCHEME OF VALUATION

IA TEST NO: 02 SEMESTER: 6th

SUBJECT WITH CODE: Construction Monagements
150061. Entp

		15°C~61.	Entp
	Q. No.	DESCRIPTION	MARKS
	0	purpose of Inspections.	
	0		1
		To distinguish good lots from bod lots.	
		To distinguish good piece from bad piece.	
		To determine if the process is changing.	
0		To determine is the process is approaching the	
		specification limits.	
		To note quality of products.	
	,	To state accuracy of inspectory.	1
		To mequire the priecision of the measuring instru	rung.
		To Secure products - design information.	04M
	. :	70 megune process Capabilities etc.	
		Stage of Inspection	
	1.		
1	.	D Impection of incoming materialy	1
ì		D) Impection of Production Procey, + Explanation	93 M
	Ć	3) Inspection of finished goods.	
1			07 Mark
	100	a like codicili.	
		Quality control:	
		Product of unisonm acceptable quality is moneyacture	
		To decide about the Standard of quality of produc	4
	2.7	that is easily acceptable by the cytomes.	
		So to check to variation always onanycoming	
	2		
	į.	To prevent the Poor quality poroduct reaching	
		The cysomey.	2 Mark
-		Page	
	_= -	Pagend	- 1



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DEPARTMENT OF CIVIL ENGINEERING

Q. No.	DESCRIPTION	MARK
	(i) Iso standardy.	IVIANA
	Iso 9000 dealy with the fundamental of quality	
	monagement systemy, including the eight principly	
	on which the somily of Standard is boyed.	
	Iso 9000 is an International standard intende	d
	to provide the generic core of a quality system	
<u>,</u>	Standard appelicable to a broad rong of	2.M
:	industriy + economic Sectory.	
	Cuytomer - Leadership - Involvement of People	:
	approach to continual approach to improvement	
	Factual Mutually	
	approach to beneficial substitutions substitutions	
i -	(ii) Total quality Management:	
	It is a structured System son socistying Internal	
	f extunal cytomes of supplied by integrating the	1
	busings envisionment, continions improvement of	
.	break throught with development, improvement of maintonence	A.
	-> ceytome societation.	
	=> cojt. egjectiveness > algest once quality work.	02M
.• 5		
	The bosic Founciply of TAM one Satisfaction of	
	Cystomen of cost effectivens of cystom Continous	
	improvement	

Page No. 02

Q.No.	Answer/Solution .	Marks
13)	1) Quality Assumance:	
	Quality Assurance is to meany by which confluetion practicy / pwp enjury the completed project, comply with the quality established by contract Downers.	•
		02M
	- Say what you do Record What you do	gmany
a .		
0	Morraly.	
G	Morray are guiding Pounciply that every citizen should	
	hold. It is the Soundational concepts defined at	;
	both at individual of societal level	
	Moraly are the knowledge of difference between	02 M
	the sight of worong Pryonal behaviour	·
3	value:	-,5
•	worth, muit of wywing on impositance of a thing.	
`	value are compressed of personal concepts of	02M
	Jegpordibility, entitlement of signes.	
©	Etug.	
	2.0	
,	study of the characturisty of monay.	
	Ettig is defined by a system of mosal pouncip	y 02.1
	by which human actions and propagaly may be Judg	d
	Projegional behaviour. good or bad or orget or	wrong.

Q.No.	Answer/Solution	Marks
	Descripe emboding a sentiment exproped earling in the paper in necognizing the ornall objective of conference of the production of Sofe, neboble of yeable of affordable conference.	01 ^
	It is a human quality of viortue Enobly others to believe in my of to rely on my without	Olm
	rejervation of fear.	
(2) ₍₂₎	Tough that nelaty to the Personal attorbuty.	<u>8</u> M
	Some thing Offered on given to some one in a position of towart to induce him/her to act dishangely.	
	i) Price fixing,	027
	A practice where by sival company come to an illict agreement not to sell goods or Service below	
	a Certain price Controlling supply of demand	02.M

Q.No.	Answer/Solution	Marks
	@ whistle blowing flypy whistle blowing is an act of conveying information about a Illegal conjunct practices. Significant moral	
	Problem by a propert Or Some one in a 129/1/on to	
	take action on the problem. External whistle blowing - paying into outside the organization. Intunal wis - within the organization.	2.4
	open whistle blowing -> Openly revealing this identity. Finanymory - Individual conveying the information concease his / her identity	3M 7M
3	Soldy measury to be token during (a) Earthwork excevation (b) Dilling of Blogting + Explonation	03M 03M
	C Hot bituminous wonk	03M 3x3=9M
· (DImpertance of Bosty in construction D. P. E. g. its maintaines + Exploration C. Sofety Horough Legislation	02 M 02 M
		2×3: 6MO

Q.No.	Answer/Solution	Marks
40	OEngg. Economig.	
	Engg. Economy deal with the methody that crobbe	
	one to take economic decision towards minimizing	
	costs and for moximizing benefits to buyings	OIM.
Ì	ongon' Zation.	
	Micro economia:	
	It is the study of markets, I segment of the	
-	economy (Individual economy orelated to particular	OIM
j	jii) Macro economy:	v
-	It is the study of the whole economy. It looks	,
	at aggligate variobly such a aggregate demand	01 M
	notion autput finglotion.	•
	iv) Time value of Money:	(-
	Try/adion Risk	0
	Coff of mony.	
j	Time value of money 15 defined as the time-dependent	
	value of money steeming both from change in a	OIM
:	Prostaging Down of money of Snow the real Changing	The state of the s
	Potential of alternative investment over time.	
. (O Coph-flow Concepts:	
	Coph flow 15 th Stream of monetary (Rupeys Valley)	- Cost
	cinputs of benefits (outputs) - rejuting from a project	מוחושנים חי

OIM 5 Mark

Q.No.	Answer/Solution			
46	Givendato:			
	P= Rs 50000/- i= Intuest rate = 15 %.			
	n: 6 monthy: 6/2: 1/2 years			
	Ondinary simple Integri-			
(F= P + PiN			
	The total amount supposed after 6 months is $F = 50000 + 50000 \times 0.15 \left[\frac{6}{12} \right]$			
	= 50000 + 3750			
	$F = \frac{53750.00}{4}$	02 M		
	ying Exact Simple Integri-	,		
	The Section value 15			
	$F = 50000 + 50000 \times 0.15 \left[\frac{31 + 28 + 31 + 30 + 31 + 30}{365} \right]$			
	F = ₹ 53719.178	02 M		
	: Futur value F: 2 53719.178 B	+4		
		04 money		

Pag NO: 07

Q.No.	Answer/Solution	Marks
 4B	Givendato:	
	P= Rs 50000/-	-
	i= Intuest rate = 157.	
	n: 6 monthy: 6/2 : 1/2 years	
	Ondinary simple July:	
	F= P +PiN	
	The total amount suppoid after 6 morty is	
	$F = 50000 + 50000 \times 0.15 \left[\frac{6}{12} \right]$	
	= 50000 + 3750	
	₹ = 5 <u>375</u> 0.00	.0.14
ļ.	F = 7 53750.00 A	02 M
	Wing Exact Simple Indept:	
	The fecture value 15	
	F= P+ PiN	
	F = 58000 + 5000 x 0.15 \ 31+28+31+30+31+307	
٠,	365	
	F: 253719.178	02 M
	: Futur value F = 2 53719.178 B	
		04 Many

Page NO: 07

Q.No.	Answer/Solution	Marks
40	Effective interest rates.	
	1 Daily 1 Monthly @ Quarterly	
	Given data r= 820.5 %.	
	Formula iest = $\left(1+\frac{r}{m}\right)^{m}-1$	
		,
	m: 365 days	
	$ieh: \int 1 + \frac{0.105}{365} \int \frac{365}{-1}$	
~ -31		02 M
	2 Monthly: m: 12 months	
	$i_{2}=1$ $\frac{1}{12}$ $\frac{0.105}{12}$ $\frac{12}{12}$	
	= 11.02 %	02M
	3 Quarterly	
	m = 4	
,	1.81: [1+ /m] m-1	
:	$= \int_{1}^{1} \frac{0.105}{1} \int_{1}^{4} -1 = 10.921.$	
	L 4 1	02M
		06 Monky

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Q.No.	Answer/Solution			
<u> </u>	Effective interest rate:			
	1 Daily @ Monthly @ Quarturly.	,		
	Given data Y = \$20.5 %.			
	Formula iest = $\left(1+\frac{r}{m}\right)^m-1$			
	m: 365 days			
	$ieh: \int 1 + \frac{0.105}{365} \int \frac{365}{-1}$			
in the state of	= .11.07 /	02 M		
-	12 monthly: m: 12 monthly			
	$i_{2}=1$ $\frac{1}{12}$ $\frac{0.105}{12}$ $\frac{12}{12}$			
٠.,	= 11.02 %	02M		
	3 Quarterly	•		
•	m = 4			
٠.	1.81: [1+ /m] -1			
	$= \int_{-1}^{1+1} \frac{0.105}{4} \int_{-1}^{4} = 10.92 y.$	02 <i>M</i>		
		06 Monky		

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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI DEPARTMENT OF CIVIL ENGINEERING III - INTERNAL ASSESSMENT

Semester: 6

2a

2 b

Project

2

Alternative2

950000

Subject: CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP(15CV61)

Date: 18 May 2018

Max Marks: 30

Faculty: Mr Sooraj Kumar / Mr. Ramesh Rae C

Time: 09:30 AM - 11:00 AM

7

100000

250000

CO4 L3

L3

Instructions to students:

Answer any 2 full question(s)

ANSWER ONE FULL QUESTION FROM EACH PART

DRAW SUITABLE FIGURES WHEREVER NECESSARY

ASSUME ANY MISSING DATA SUITABLY

ASSUME AN	Y MISSING DATA SUITABLY			
Question#	Question	Marks	СО	BT/CL
12	A person is planning for his retired life. He has 10 more years of service. He would like to deposit 1/5 th of his salary, which is Rs. 5500, at the end of the first year, and thereafter he wishes to deposit the amount with an annual increase of Rs. 1500 for the next 9 years with an interest rate of 15%. Find the total amount at the end of the 10th year of the above series		CO4	L3
1b ²	A bank gives a loan to a company to purchase an equipment worth Rs.800000 at an interest rate of 12% compounded annually. This amount should be repaid in 15 yearly equal installments. Find the installment amount that the company has to pay to the bank.	6	CO4	L3
1 c	Explain break even analysis and its importance	3	CO4	L2
	OR			
	The cash flows of two project proposals are as given below. Each of the project has an expected life of 10 years. Select the best project based on present worth method of comparison using an interest rate of 18%,			

compounded annually.

Projects Initial Annual equivalent Salvage value after 10 years(Rs)

Project 750000 200000 50000

225000

A company is planning to expand its present business activity. It has two alternatives for the expansion programme and the corresponding cash flows are given in the following table. Each alternative has a life of five years and a negligible salvage value. The minimum attractive rate of return for the company is 15%. Suggest the best alternative to the company.

750000

	0	value. The minimum attractive		•	604
company is 15%. Suggest the best alternative to the company.					CO4
	Alternatives	Initial investment (Rs)	Yearly revenue(Rs)		
1	Alte: native 1	450000	150000		

3 a	Enplain entrepreneurship and functions of entrepreneurship	5	CO5	L2
3 b	What are the characteristics of small scale industries	5	CO5	L2
3 c	Explain briefly the barriers to entrepreneurship	5 ,	CO5	L2

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODBIDRI DEPARTMENT OF CIVIL ENGINEERING III - INTERNAL ASSESSMENT

Semester: 6

Subject: CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP(15CV61)

Max Marks: 30

Faculty: Mr Sooraj Kumar / Mr. Ramesh Rao

Date: 18 May 2018

BT/CL

Time: 09:30 AM - 11:00 AM

Instructions to students:

Question# Question

16

1 c

2a

2 b

Answer any 2 full question(s) ANSWER ONE FULL QUESTION FROM EACH PART

DRAW SUITABLE FIGURES WHEREVER NECESSARY

ASSUME ANY MISSING DATA SUITABLY

Question
A person is planning for his retired life. He has 10 more years of service. He would like to deposit 1/5 th of his salary, which is Rs. 5500, at the end of the first year, and thereafter he wishes to deposit the amount with an annual increase of Rs. 1500 for the next 9 years with an interest rate of 15%. Find the total amount at the end of the 10th year of the above series

Marks CO

A bank gives a loan to a company to purchase an equipment worth Rs.800000 at an interest rate of 12% compounded annually. This amount should be repaid in 15 yearly equal installments. Find the installment amount that the company has to pay to the bank.

CO4 6

Explain break even analysis and its importance

CO4 L2 3

OR

The cash flows of two project proposals are as given below. Each of the project has an expected life of 10 years. Select the best project based on present worth method of comparison using an interest rate of 18%,

compounded annually.

Projects	Initial outlay(Rs)	Annual equivalent revenue(Rs)	Salvage value after 10 years(Rs)
Project 1	750000	200000	50000
Project 2	950000	225000	100000

7 CO4 L3

A company is planning to expand its present business activity. It has two alternatives for the expansion programme and the corresponding cash flows are given in the following table. Each alternative has a life of five years and a negligible salvage value. The minimum attractive rate of return for the

company is 15%. Suggest the best alternative to the company.

CO4 L3 8

Alternatives	Initial investment (Rs)	Yearly revenue(Rs)
Alte: native 1	450000	150000
Alternative2	750000	250000

3 a	Enplain entrepreneurship and functions of entrepreneurship			5	CO5	L2
3 b	What are the characteristics of small scale industries	PULL.	A. Land	5	CO5	L2
3 c	Explain briefly the barriers to entrepreneurship		,	5 ,	CO5	L2

Question#	Question	Marks	СО	BT/CL .
	OR			
4 a 4 b	What are the different stages of entrepreneurship and explain in detail	7	CO5	L2
40	Explain in deatil the business planning process	8	CO5	L2

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DEPARTMENT OF CIVIL ENGINEERING

SCHEME OF VALUATION

IA TEST NO: 3

SEMESTER: 644

SUBJECT WITH CODE: CME (15CV61)

Q. No. DESCRIPTION 1a) $A_1 = 5500$ $C_1 = 1500$ $C_2 = 1500$ $C_3 = 157$ $C_4 = 157$ $C_4 = 157$ $C_5 = 157$ $C_5 = 157$ $C_7 = 1500$		MARKS
$C_{1} = 1500$		2
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DEPARTMENT OF CIVIL ENGINEERING

SCHEME OF VALUATION

IA TEST NO

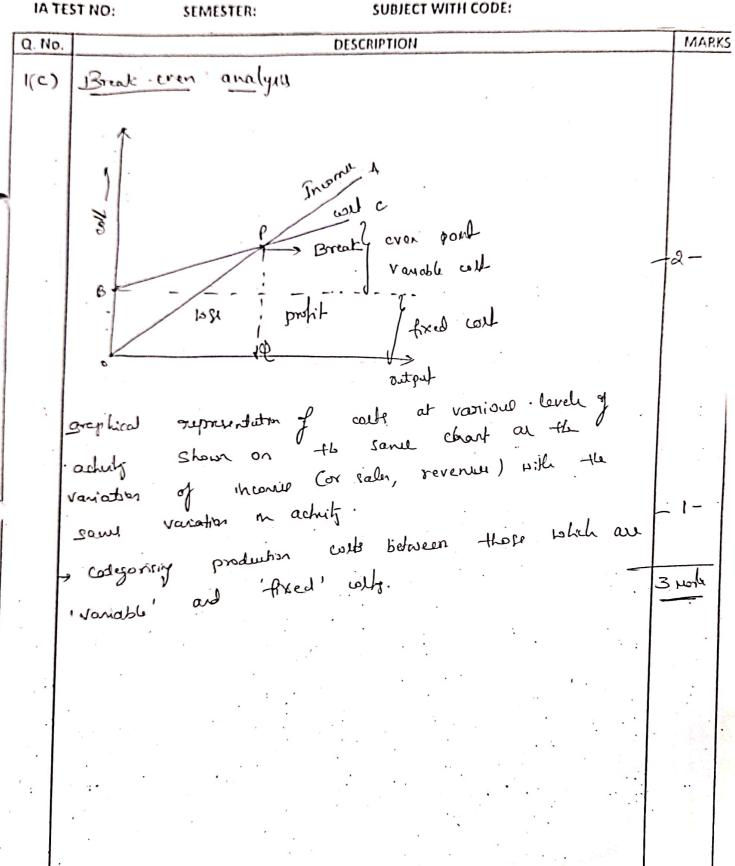
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SCHEME OF VALUATION

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SEMESTER:

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Q. No.	DESCRIPTION	MARKS
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	ic 18 %	. •
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. (2, Project 2	
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IA TEST NO:

SEMESTER:

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SCHEME OF VALUATION



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SCHEME OF VALUATION

Nb.			DESCRIP	TION			MARK
	Alternative	-2 : .		-			
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	4 - 5,20	003 					
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SCHEME OF VALUATION

IA TEST NO:

SEMESTER:

Q. No.	DESCRIPTION	MARKS
	Alternative-2:	,
	P= 7,50,000	
	4 5 3 20 013	
	P/ (15%) = -7,50,000 + 2,50000 [1+(0.15)-1	
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	P19(200)= -P+ A(P/A, 201,5)	
	= 2 - 2346.96	.:
Ċ	Interplate Non PRZO, when i= 19.87%	
	: Both are same Hence both alternatives will	
	Yild but rate of return.	(a)



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SCHEME OF VALUATION

IA TEST NO:

SEMESTER:

Q. No.	DESCRIPTION	MARKS
30)	Explanation, definition, importance	2
1	Functions of entrepreneur. 1) Idea generation 2) Determination of the bussiness objective 3) Product analysis and market remarks. 3) Product analysis and market remarks.	•
	4) Determination of form of Distriction of promotional formality. 5) Completion of promotional formality.	3
1	F) Recramment of nun	5 mortes
33)	Even in the small unit while an van grant gent mainly from or company. The achiring one mainly curvied out by one of the pourtners or directors. a) Lesser Developmental period	
	2) Localized to the Coal and General demondy, 21) Use indigenous newouser 25) If Jugus very little capital	5_



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SCHEME OF VALUATION

IA TEST NO:

SEMESTER:

	SUMESTER SOBJECT WITH CODE.	
Q. No.	DESCRIPTION	MARKS
3c)	Berici to Extropreneusly	
	1) Salary 2) Benefit 3) Nork Shedal	
	4) Alministration	5-
	51 Incompetent Staff	
49)	Stages of entreprenueral process	
	1) Idealfrication of opportunity	2×3 +1
•	2) Evaluation of opportunity 5) Preparation of today business plan. 4) Differentiation and organising the resources.	7-
	(5) Management of enterprise	·
46)	Bussinu plan procen	
(1) Idea generation	
¢:	2) Environnetal (Scaling) Scanning	
	3). Tacking analysis	×4
	10000 Com	2 mg
	Evaluation, control and review Hop	1



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IA	Date	Subject with Subject Code	No. of Students Present	No. of Students Absent	0 – 8 Marks	9– 12 Marks	13– 15 Marks
1	26/03/18	CM&E- 15CV61	49	02	2	26	21
11	26/04/18	CM&E- 15CV61	51	00	0	20	31
III	18/05/18	CM&E- 15CV61	10	41	3	7	0

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Roll. No. NAME								6-17	
2 4AL14CV035 HARSHITH.H.J 12 11 AB 02 14 3 4AL14CV035 HARSHITH.H.J 10 10 06 03 13 4 4AL14CV046 MALLIKARJUNA 09 09 09 09 03 12 5 4AL14CV050 MOHAMMED SHERIEF 13 13 AB 03 16 6 4AL14CV072 RAKESH H 09 15 AB 02 14 7 4AL14CV086 JAYARAMA 07 13 09 04 15 8 4AL14CV011 VARSHA B M 15 15 AB 04 19 9 4AL14CV112 RAGHAVENDRA G R 09 10 AB 03 13 10 4AL14CV112 RAGHAVENDRA G R 09 10 AB 03 13 11 4AL15CV001 A N YASHWANTH 14 13 AB 04 18 12 4AL15CV003 ABHILASH N M 10 13 AB 03 16 13 4AL15CV004 ADARSHA A 14 14 AB 04 18 14 4AL15CV005 AISHWARYA D 14 14 AB 03 17 15 4AL15CV005 AISHWARYA D 14 14 AB 03 17 16 4AL15CV005 AISHWARYA D 14 14 AB 03 17 16 4AL15CV006 AKSHATHA M CHAVAN 12 11 12 04 16 17 4AL15CV001 ANAND P R 11 14 AB 04 17 18 4AL15CV012 ANAND P R 11 14 AB 04 17 19 4AL15CV015 ANANYA M 12 13 AB 04 18 20 4AL15CV016 ANANYA M 12 13 AB 04 17 19 4AL15CV016 ANANYA M 12 13 AB 04 17 19 4AL15CV016 ANANYA M 12 13 AB 04 17 19 4AL15CV016 ANANYA M 12 13 AB 04 17 19 4AL15CV016 ANANYA M 12 13 AB 04 17 21 4AL15CV018 ARSHAYA SUNAGAD 13 14 AB 04 17 22 4AL15CV018 ARSHAYA SHETTY 10 13 08 03 15 23 4AL15CV020 K 13 ASHWAYANA M 13 15 AB 03 16 24 4AL15CV020 BASAVARAY SHETTY 10 13 08 03 15 25 4AL15CV020 BASAVARAJ KANKANODI 11 12 AB 03 15 26 4AL15CV020 BHARGAVI B 15 14 AB 04 19	No.	usn	NAME		1 222	10.70	ASSIGNM ENT		RESULT
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25	***	4AL15CV020		13	15	AB	03		,
25		4AL15CV021	ATHIRA SURENDRAN	13	13	AB	03	16	
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	27	4AL15CV026	BHUPATHI L	07	11	08	03	13	

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Mijar, Moodbidri - 574 225



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Roll. No.	usn	NAME	I IA	II IA	III IA	ASSIGN	AVG IA	RESULT
28	4AL15CV027	CHAITANYA B S	14	12	AB	04	17	
29	4AL15CV028	CHANNANASAPPA S MAKANUR	12	12	AB	03	15	
30	4AL15CV030	DAMODHAR SHENOY P	15	15	AB	05	20	
31	4AL15CV032	GOVIND RAJ H R	AB	14	10	03	15	
32	4AL15CV033	GURU PRASAD M	10	10	AB	03	13	
33	4AL15CV034	HANUMANTH Y MADAR	11	14	AB	03	16	
34	4AL15CV035	HARSHITA RYAGI	11	11	AB	01	12	
35	4AL15CV037	JAGADEESH KRISHNA JOGI	14	14	AB	03	17	
36	4AL15CV038	JAGADEESHA	15	15	AB	05	20	
37	4AL15CV039	JYOTHI S	14	13	AB	04	18	
38	4AL15CV041	KARIGOWDA	12	14	AB	03	16	
39	4AL15CV042	KARTHIK N S	13	15	AB	04	18	
40	4AL15CV046	LEISHEMBA SOIBAM	13	14	AB	03	17	
41	4AL15CV047	MADHU BHAJANTRI	13	13	AB	04	17	
42	4AL15CV048	MAHAMMED JAKEER K	10	09	10	02	12	
43	4AL15CV049	MAHAMMADRASOOL AWATI	09	14	AB	03	15	
44	4AL15CV050	MAHESH K N	11	12	AB	03	15	
45	4AL15CV053	MANJULA PARAPPA KURBET	15	15	AB	04	19	
46	4AL15CV054	MANJUNATH M	09	11	AB	02	12	
47	4AL15CV055	MANJUNATHA K S	11	11	AB	04	15	
48	4AL15CV056	MANOJ KUMAR H M	10	12	AB	04	15	
49	4AL15CV057	MANU P	13	12	AB	05	18	
50	4AL15CV058	MEGHANA C G	14		AB	04	19	
51	4AL15CV060	MOHANKUMAR SHIVAPPA PUJAR	AB	10	09	02	12	

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Assignment Questions

Subject: Construction Management & Entrepreneurship

Subject Code: 15CV61

Assignment 01

- 1. Define Management. Write the different characteristics of Management.
- 2. Write the difference between Ghantt chart & Work Breakdown Structures.
- 3. Explain in detail the different types of plan & different levels of management.
- 4. What is construction management & explain in brief.

Assignment 02

- 1. What is labor productivity? List various factors affecting it.
- 2. Explain in detail the classification of construction equipments.
- 3. Write a short note on different methods of calculating depreciation.

Assignment 03

- 1. Write a short note on the following.
- a) Quality Assurance
- b) Quality Control
- c) Importance of safety in construction
- d) Ethics & Ethical principles
- e) Gifts & Bribes
- f) Price Fixing
- g) Whistle Blowing

Assignment 04

Multiple choice Question Test

MCQ quiz was conducted to verify the knowledge and to check the understanding of the subject in particular related to the various different topics.

Assignment 05

Asked to prepare the chart by collecting various different articles related to construction, business & engineering economics, entrepreneurship and write a brief report on those articles which they have collected.

Dept. of Civil Englished ing Dept. of Civil English rechnology Alva's Institute of English 78 chnology Mijar, Moodbab - 574 225

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4/18 Assignment - 01

1. Define Management. Wite the different characteristics of management.

According to Lawrence Appley - "Hamagement is the vaccomplishment of viesults through the efforts of other people".

: ever humapenom fo aritaristicarche therefold at

- · betniera loop is transparal &
- Management is a unifying force.
- Management is a distinct process comprising the functions and as planning or corporation, gricinages.
- Management às univiral in character.
- > Management às la multi-idisciplinary subject.
- > Management represents a system of authority a hierarchy of command and control.
- Li is dynamic, mot static: Management adopts itself to the social along when the color with the country of the color of th
- Management provides good training to personnel for cuttaining high skill in call fields.
- 2. Write the difference between ghant chart and work breakdown structure
 - A WBS is a hierarchical structure of primary a large of a 28W A semile entit on and II. I beginnegred at traject as traject work work and the project as traject as the work work and the control of the

It is simply a logical way of mining how the work is vorganized.

It inite dynastic de chimind de functional alecantration to

functionality or tasks that were verywired to support it.

A Grantl whart shows a sequential view of how the work is planned to the wampheted sover a specied of time uncluding showing dependences among items that what be wampheted in sequence. The items in the Ghantl whart might be organized the same way that the WBS is structured. The importance of a Ghantl whart is to show a timeline and the planned sequence of artivities.

- 3. Eaplain in détail the déférent types of plan and différent levels of management.
 - The vdifferent types of plans vare;
 - > Standing plans
 - engle son plans
 - · Standing plans:

Standing plans were those plans which was fut to use again and again, for one established, miagar to be applied that with they were modified. I be applied that they ware modified agr Planning for machine buckbours, planning for employer alsonse.

· Single use plans :-

These plans are non-recurring in mature and ideal with problems that probably will not be repeated in the same form in future.

Developed to carry out a course of vaction that is not likely to be repealed in the future

The different levels of unanagement are;

> Top level management:

(CEO's, Board of idirectors, Hamaging directors, General imanagers)

- · Determines objectives & policies.
- · Designs the basic reperating and functional structure of an organization.
- · Provides guidance & ideraction.
- · Lays down standards of performance.
- > Middle Lund management:-

(Harbeting manager, personnal manager, production manager, project

- · Interprets and explains the policies framed by the top management.
- · Traver detailed infrastructures.
- · Trains other managers.
- > Lower level management

(supervision, section head, foreman)

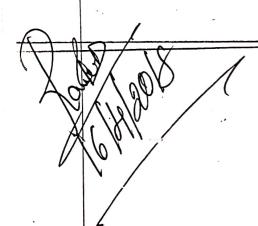
- · Plans day to day operations.
- · Assigns you to workers.
- · Provides supervision of control over work.
- · Arranges materials, tools of equipments.
- · Maintain idiscipline.

4. What is construction management? Enchlain in level.

Construction management is a proposage of service that uses extendised, home repeats, grunnally eith everever at enjurelet transporter transport transport to the primingel ati many, traject to restructions.

The furthese of renstruction management is its control a projects time, cost and apality. Construction management is rempeted with all project deliving septems including design-build-build-build, check the rush can further the build. CM of rush cand problect furnists for further build.

le néarlais project colifertius and plans uncluding delineaties of socialistics, enablated, enablated, enablated, enablated of performance oraquements and eselecting project participants.



Jevel air mindped? Inemegamam naturdanax air tahed (bejulainah asau ton), bejulainah asau ton) and samulanah ar air tremegamam naturdana) horrar népisab, primmaly est searence et supindut tremegamam tojary and a primmiged ati mary, tojary as jo neutrurtanax

The fruspose ref renstruction management is its trentral a fregets time, cost and apality. Construction management is compatible with rale project deliving systems including design-build-build-build, com at rush cand problex-private fartnerships.

le neutremilet project colvections and plans uncluding delineation of social subject of performance requirements of performance requirements and established project participants.

4/18 Assignment - 02

- 1. What is labour productivity? List various factors affecting it.
 - Labour productivity is a measure of scanomic growth of a country. It measures the amount of goods of several products by a labour in one hour. Sherifically below productivity measures the amount of oreal gross domestic products produced by a lobour in a hour.

The factors appeting labour freductivity are:

- > Job Jocation / work wit.
- Nature of the work-
- > Temperature and vlumatic conditions.
- > Time rand work hours.
- A varlability of resources.
- I shortage of itsols and equipments.
- > Corew sizo inefficiency.
- ·> work varea practices.
- ·> Contract agreements
- 2. Eaplain un statuil the classification of Construction equipments
 - a Juntermiltent_type:-

Have untermittent cycles of work. Operated on series of work cycles, such cycle completes in itself.

egr Power shoul, drag lines, octappers, concrete omixer.

- b] Continuous_flow typo:
 - How continuous flow of work turned out.
- egr Belt conveyors, pipelines, voir compressors.
- -: Alte walk print [3

Combination of both intermittent of continuous flow type. They are completely coperated over a definite surface carea.

- 10) Evertleworke equipments:
- > Farthwork and lifting equipments.
- eg v Backhoe, face whoul, Dragline, clamphell.
- ·> Earthwork cutting and moving equipments;
 - egt Bulldozers, scrapers, front and cleaders.
- ; themplupe noitatrapament ?
- eg r Tuppers, dump truck, belt conveyor
- ·) Compacting & funishing;
- egt Roller, gradies.
- 2) Material Koisting Plant:-
- . Holule wrames: warner relevanted, self propelled, truck mounted.
- 7 Tower uranes: Stationary, travelling, ulimbung types.
- ·> Horsts: Holule, fisceid.
- 3) Concrete inlant & equipments c

- b] Centinuous flow typo:
 - Have continuous flow of work turned out.
- egr Belt conveyors, pipelines, air compressors.
- -: Muid flow ity []

Combination of both vintimitant of continuous flow type. They are completely coherated over a adefinite surface carea.

- 17 Evertlework equipments:
- > Farthwork and lifting equipments.
- eg v Backhoe, face shoul, Dragline, clamphell.
- ·) Earthwork witting and moving equipments;
- egt Bulldozers, scrapers, front und cloaders.
- ? Transportation equipments ?
- eg r Tuppers, dump truck, elet conveyor
- ·) Compacting & funishing;
 - egt Roller, gradies.
- 2) Material Hoisting Plant:
- . Holule crames: crawler mounted, self propelled, truck mounted.
- 7 Tower veraines: Stationary, travelling, climbung types.
- > Horats: Holule, fixed.
- 3) Concrete inlant of equipments c

- arighment & resum showt : thremigupe gnitroganout <
- > Placing equipments: Concrete pumps, buckets, charists.
- > Porecasting requipments: Vibrators, esteum curing, surface finish.
- >> Vibrating equipments:- Needle vibrators, plate compactors
- 2) Support cand utility accurate:
 Prumping equipment, pepelaying equipment, power generation equipments,
 welding equipments.
- Special hurhour beauty construction plant:

 Aggregate production plant and work blasting equipment, not min plant
 and having equipment, hile advising equipment, budge & vailurary
 construction equipments
- 3. Write a short mote on different mediads of calculating depreciation

 Depreciation is defined as the expensing of the cost of an asset

 involved in producing revenues throughout its useful life.

 The methods of calculating idepreciation are;
 - Straight line idepreciation has been the most widely used idepreciation method in US for many years due to its simplicity. To apply the straight line method, a company charges can equal comount of

- arifmuls & risum shurt : thremifuper gnitropanar 7
- > Placing equipments :- Concrete humps, buckets, choists.
- > Porecasting equipments: Vibrators, esteum curing, surface finish.
- >> Vibrating equipments:- Needle vibrators, plate compactors
- 4) Support cand utility accurate:

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- Special fruspose breamy construction plant:

 Aggregate frieduction plant and work blasting equipment, not mix fant and frawing equipment, file abriting equipment, budge of vaeluray construction equipments
- Depreciation is defined as the expension of the cost of can asset

 Depreciation is defined as the expension of the cost of can asset

 The methods of calculating remember throughout its underly mit bendevini.
- Straight line depreciation has been the most widely used adpreciation method in US for many years due to its simplicity. To apply the straight line method, a company charges can equal comount of

(ausests historical cost - the vascets estimated solvage value) / (evelow discourse discourse of the vascet's england a discourse of the vascet's england and the cost of the cost

-: mitsubard for stime!

laype no enjerera boutem noitainaph noitaisaph to time at the dimension of the time does at amapa to the time does at amapa to the time does at the tile will be the country of the countr

> Sum of years idigits:

Sum of years digits is a reliveration method that results in a smore accelerated with the than the third but the declinated than that of the double ideclinated bearing bearing the method. Under this method, communal adjustiation is determined by multiplying the defraciable root by a series of fractions based on the sum of the wassets useful the ideal.

> Double - declining Julance:

The double declining balance method is a type of carcilerated depreciation method that calculates a displan adjurciation change in the first year of an vacrets life and agradually decreases depreciation expense in subsequent years.

10 mm 100 mm 100

- 1. Write a short mote on the following
 - -: esmanuar philage ?
 - → Quality assurance is a program couring activities mecessary to structure triggery to the work to method the project recipient of the work and placed the property of the method that the confidence of the conf

Quality assurance compruses administrative and procedural actuities unplemented in a quality system so that requirements goals for a product, service or actuity will be fulfilled.

> Justily control =

Product of uniform acceptable quality is manufactured. The objections of quality control is: to wheele the variation during manufacturing to decide about the standard of quality of a product that is easily variefitable by the existencer.

Quality control is a process that starts in pre-construction of continues throughout construction, completion and occupancy of project.

> Importance of safety:-

Safety in construction is frame requirement but it is often megleted on work site. The range of construction and building articles and building

environment, engles productivity and greater commitment of workers

> Ethico and ethical frunciples:-

Ethics describes a generally carrepted set of moral principles.

Honesty: - Act with Inonesty.

Fairness: Do mot seek to solitain a benefit which various advictly or wideretly from the unfair treatment of other people.

Fair reward: Avoid wats which were likely ito result in ramother tharty heing depressed of a fair reward at work.

Reliability: Maintain up to date skills rand provide services only within your curea of competence.

Objectually: I I dentity any potential complete of interest of absolved the conflict ito vary person who would be adversely affected by it.

> gifts & diriles >

Brilis reve the payment made to a person in a position of itrust to corrupt this judgement. It is also known as kulkbark/payoff. Gifts is mothing but isomething acquired without any compensation.

·> Prive ficing:-

Price fixing is an agreement between participants on the same side in a market to luy or well or product, service or commodly only at a feast price.

A fractive whereby rurial companies come to an illuit vagrument mot do well igoods or vservices below a certain price.

> white blowing:

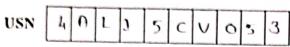
It is an exposure to the public or authorities of wrong doing by an organisation, usually by an employer.

211/18

14)	•
-	MCQ Test - 1.
1.	c) Activity
٤.	D> None of these
3.	R Vertual lines.
4.	> Frue float.
5.	A) Event X
6.	B> 1900
7.	B) Float.
8.	D) Same X
٩.	D) all the iabour.
lio.	A) Bar whart votethind.
ű;	A) Event flow selfduling technique.
	A) Management
13,	D) All the valuery
14.	A) Terrincal.
. 15-	c) Conceptual
16.	B) Planning and idecision introduing.
17.	A) organizing
	A) line and staff verganication.
Iq .	B) helitale blaining

an inggestate or the con-		[15]
201	A) Ethis	
ຊາ.	B) Price fixing .	
22.	D) Total quality Management.	
રૂર .	A) Inspection.	
24.	B) quality control	
25.	c) Quality assurante.	
થ(.	B> Safety.	
27.	A) Policy	
28	A) single use plans	
29.	B) Budget	
20.	c) Statutory very very very very very very very ve	
(:

GBC2 SCHIEME



15CV61

Sixth Semester B.E. Degree Examination, June/July 2018 Construction Management and Entrepreneurship

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

Define Construction management. Explain the objectives of construction management. 1

What are the functions of management? Explain any two of them.

(08 Marks) (08 Marks)

OR

2 What is construction planning? List the objectives of construction planning.

(06 Marks)

Explain Bar chart or Gantt chart. Write its limitations. b.

(04 Marks)

Draw the network for the project based on the following data of events: Find Early start time, Early finish time, Late finish time, and determine the least number of

days required to complete the work. Draw the critical path.

Event	Duration (Days)	Preceders
Α	2	-
В	4	-
С	1	Α
D	6	В
E	7	C, D (

(06 Marks)

Module-2

Explain the importance of resource management in the construction of a project. 3 (08 Marks)

Explain (i) Minimum wages act 1948 (ii) Labour production ate of productivity. (08 Marks) b.

OR

Explain the advantages of utilization of construction equipments in construction field. List a. the various classifications of equipments. (08 Marks)

Describe material management and objectives of material management.

(08 Marks)

(08 Marks)

Module-3

Define quality. Describe quality control and quality assurance.

Explain the importance of safety in construction. Explain the safety measures during (i) Excavation (ii) Drilling and blasting (08 Marks)

OR

Describe the safety insurance. Explain constructors all risk insurance.

(08 Marks)

Differentiate between morals and values.

(04 Marks)

List the professional rights.

(04 Marks)

Module-4

What is economics? List the goals of economics.

(08 Marks)

Differentiate between Microeconomics and Macroeconomics.

(08 Marks)

Explain: (i) Time value of money (ii) Simple interest (iii) Compound interest.

Mr. X is planning to build his own box 10 plans to deposit Br. 40,000/ (10 Marks) Mr. X is planning to build his own house. He plans to deposit Rs. 40,000/- every year for next 10 years in a bank. The bank gives 12% interest rate compound annually. Find the (06 Marks) maturity value of his account after 10 year.

Module-5

Explain in brief the role of entrepreneurship in economic development. (08 Marks) What do you mean by small-scale industry? List the characteristics of small scale industries. (08 Marks)

OR

(08 Marks) What is business plan? Explain the importance of business plan. Explain in detail the contents of a good project report. (08 Marks)

THE REPORT OF THE PROPERTY OF

Visvesvaraya Technological University, Belagavi

MODEL QUESTION PAPER- 6th Semester, B.E (CBCS) CV

Course: 15CV61 - Construction Management and Entrepreneurship

Time: 3 hours Max Marks: 80

Note: (1) Answer any FIVE full questions selecting any one full question from each module.

(2) Assume missing data suitably and clearly mention in the answer script about it

Module-1

la	Identify the Stake holders in a construction project and Explain the Roles of Contractor and PMC Consultants	08
1b	Define Lag time and Lead Time in a PND ? explain with diagram the different	08
1	relationship between predecessor and successor activities using this concept	

OR

2a	Explain the Concept of Work break down Structure with an Example	06
2b	Using CPM Method determine "Critical activities" and Critical path for the network given below. What is project duration?	10
	A, 12 $\stackrel{Q}{\longrightarrow}$ 4 G. 7 C, 8 F, 0 B, 14 3 E, 10	

Module-2

3a	List out various Inventory Control Techniques adopted in Material Management and Explain A-B-C analysis?	08
3b	For a typical Project of Cost Rs Cr 900, has its Direct Labour cost of 22% of Gross. Productive labour cost is 35% of labour Cost. By optimization of Work, there was 38% reduction in Labour non Productivity as compared to earlier. Estimate the total Cost of Saving in Labour productivity by above process in terms of Rs Cr and in % wrt Project Cost, Labour Cost and Productive labour Cost	08

OR

4a	List out Factors behind the Selection of Construction equipment's perform assigned tasks / Project's need	04
4b	An Excavator with a bucket capacity is 1.5 cum and rated horse power is 180HP is used for excavation of ordinary soil. Following information is available	12
	1. Capital cost of excavator = Rs80 lakhs, Charged to the project: 2.25% per month of capital cost,	
	2. Employment hrs / month = 250 hrs ,Technical life 5 yrs , salvage value = 10% of Capital Cost	
	3. Prime mover = diesel, load factor = 0.85, crank case capacity = 30 lit., time between oil change = 100 hours.	
	4. Operational correction factors = 0.7, load factor = 0.85, bucket swing factor = 1.00, bucket fill factor = 0.9	-
	5. Operational manpower cost = Rs 175 / hr	

Time eyele for 1 operation of excavator = 45sec for 55 min hour. Routine maintenance and major repair cost = 120% of depreciation cost. 7. Diesel rate = rs 70 / lit and lube rate is rs 200 / lit8. Estimate: Hourly production rate of the excavator in cum / hr Cost of ownership and operation in rs/ hr Unit rate of equipment operation for Excavatorin Rs / cum. Estimate The Number of Excavator needed to do a Job of Earthwork in Sub Grade having a Compacted Volume Quantity of 70,000 Cum, to be executed in 24 days with 10 hrs working per day. Determine the number of dumpers required for transportation if average lead from borrow area to site is 8kms and dumper have a capacity of 12 cum, its forward speed is 15 kmph, backward speed is 30 kmph, unloading time = 4 min, repositioning time = 2 min. performance efficiency factor = 50min hour time

Module-3

5a	Briefly Explain the construction Quality process.	
5b	List out broad principles of quality many	06
5c	List out broad principles of quality management systems as outlined under ISO 9000	04
	Describe safety measures to be adopted while doing Hot Bituminous Works to avoid accidents	06
	(AD	

OR

6a	Define Values Morals and Ethics and Live	
	Define Values, Morals and Ethics and List out seven ethical principles applicable to	06
(1)	construction industry	00
6b	What is importance of tool box meeting and good house keeping in construction safety	
	management?	04
6c	Explain " Quality Audit and its Process"	
	The second state and its frocess	06
	Module 4	

Module-4

7a	Discuss briefly " concept of engineering economic study and its principles"	08
7b	What is the Total Capitalized cost of a building which have construction cost Rs 1,50,000/-immediately, Rs 15000 expenses each year for first 5 yrs and annual year end maintenance cost of Rs 5000/- plus the expenditure of Rs 35000 at the end of each 10years period for replacement purpose? assume rate of interest = 9.5% P.a	08
	(31)	

OR

8a	sciection nom	two projects 2 following alto	X & Y are givernatives : as:	ven below sume min a	using annu	ual worth method make a nte of return i*=10%	10
	End of Year PRO X PROJ Y	0 -50000 -30000	1 5000 40000	2 17500 15000	3 30000 15000	4 42500 15000	
8b	What is presen before today, t	t equivalent n ake discounti	noney value ong rate = 129	of Rs 75,00	00/- (a) 5 :	years from now (b) 5 years	06
				Module		y	

Module-5

9a	Define Micro, small and medium enterprises? list and explain characteristics of MSME	
Ole	The interest, sman and medium enterprises ? list and explain characteristics of MSMF	//0
9b	List and Explain the Different sources of Finance for Entrepreneur	08
	- Francisco Sources of Finance for Entrepreneur	08
	OR	00

The second second second second	What id DPR, Discuss the guidelines for the preparation of model project report for starting new venture	08
106	Explain the stages in Entrepreneur / entrepreneurial process	08

SIXTH SEMESTER B.E Degree EXAMINATION, MAY 2018 Construction Management and Entrepreneurship

Time -3hrs Max Marks-80

NOTE-Answer five full questions, choosing or	ne full questions from each module
MODULE -1	
1 /-VE 1' C'' 1D d M d M d M CDM	40.00

1. (a) Explain Critical Path Method (CPM) (8 Marks) (b) Explain the construction project organization (8 Marks)

OR

2. (a) Explain AOA & AON network (8 Marks)

(b) Write a short note on Construction project formulation **MODULE-2**

3. (a) Explain briefly the steps involved in selection process (8 Marks)

(b)Explain communication process

(8 Marks)

(8 Marks)

OR

4. (a)Describe the estimation of ownership cost, operational cost and maintenance cost.

(b) What are the factors which affects the selection of construction equipments?

(8 Marks)

MODULE-3

5. (a) What is whistle blowing and describe the types of whistle blowing? (8 Marks) (b)Explain integrity and trustworthiness.

(8 Marks)

OR

6. (a)Define inspection, What are the type of inspection? (10 Marks) (b) What are the functions of inspection?

(6 Marks)

MODULE-4

7. (a) With an example, explain problem solving process.

(8 Marks)

(b)Two types of trucks are available for transportation use the details are as follows.

Particular	Truck A	Truck B
First cost (Rs)	10,00,000	15,00,000
Maintenance cost (Rs) (Annual)	20,000	15,000
Estimated Salvage value (Rs)	21,00,000	5,00,000
Estimated life	5 years	10 years

Both the truck delivers same amount work. Assume interest rate of 70% which truck is to be preferred on PW case. (8 Marks)

OR

8. (a) What is the significance of cash flow diagram? Sketch CFD for,

(8 Marks)

i) Borrowers point of view

ii) lenders point of view.

(b)Determine the effective interest rate for a nominal annual rate of 8% that is compounded.

i) Daily

ii) Monthly iii) Quarterly iv) Semi annually

(8 Marks)

MODULE-5

9. (a)Explain the role of MSME in economic development

(6 Marks)

(b) Write a short note on following

(10 Marks)

i) SIDBI

ii) KSFC

OR

10. (a) Write short notes on

(10 Marks)

i) International Entrepreneurship opportunities

ii) Venture capital

(b) Explain in brief the concept of entrepreneurship.

(6 Marks)



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
Shobhavana Campus, Mijar, Moodabidri, Mangalore Taluk, D.K - 574225
Phone. 08258-262725, Fax: 08258-262726
DEPARTMENT OF CIVIL ENGINEERING

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7	4AL14CV086	SHETTY SIDDESH JAYARAMA	16	51	67	13	41	54	15	67	82	16	21	37	12	51	63	16	34	50	12	14	26	14	45	59	412	F
8	4AL14CV111	VARSHA B M	15	54	69	15	67	82	19	61	80	18	56	74	18	57	75	19	47	66	14	38	52	18	59	77	523	FC
9	4AL14CV112	RAGHAVENDRA G R	13	41	54	17	49	66	13	60	73	15	40	55	16	49	65	17	50	67	15	35	50	15	66	81	461	SC
10	4AL14CV113	SEEMA SIDDAPPA SHIRAHATTI	11	41	52	15	44	59	14	44	58	17	31	48	13	28	41	16	28	44	12	35	47	16	57	73	375	SC
11	4AL15CV001	A N YASHWANTH	16	60	76	15	57	72	18	61	79	17	50	67	14	58	72	16	63	79	13	33	46	18	54	72	517	FC
12	4AL15CV003	ABHILASH N M	15	46	61	16	46	62	16	55	71	16	28	44	12	49	61	15	38	53	16	45	61	16	49	65	417	SC
13	4AL15CV004	ADARSHA A	16	65	81	15	57	72	18	64	82	19	67	86	15	46	61	18	56	74	18	35	53	18	54	72	528 F	:C
14	4AL15CV005	AISHWARYA D	16	50	66	17	58	75	17	66	83	18	54	72	16	47	63	16	54	70	14	34	48	17	70	87	516 F	C
15	4AL15CV007	AKII!LA F	17	66	83	16	51	67	15	60	75	17	58	75	16	45	61	18	43	61	14	34	48	14	62	76	498 F	c
16	4AL15CV008	AKSHATHA M CHAVAN	16	73	89	16	55	71	16	54	70	17	50	67	16	50	66	15	55	70	15	35	50	17	53	70	503 F	C
17	4AL15CV012	ANAND P R	16	66	82	13	45	58	17	38	55	19	45	64	13	42	55	15	33	48	12	35	47	16	62	78	440 S	2
18	4AL15CV013	ANANYA M H	15	57	72	14	65	. 79	17	66	83	17	30	47	14	49	63	16	59	75	14	35	49	17	57	74	493 FC	
19	4AL15CV015	ANUSHA SUNAGAD	16	58	74	16	56	72	18	57	75	20	60	80	15	65	80	17	48	65	15	35	50	17	60	77	523 FC	· 中国 益
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22	4AL15CV019	ASHRAYA SHETTY	15	55	70	14	60	74	15	56	71	15	44	59	13	60	73	17	40	57	15	35	50	15	48	63	467 SC	
23	4AL15CV020	ASHWATHA NARAYANA M K	15	61	76	15	64	79	17	46	63	20	59	79	15	61	76	17	63	80	14	32	46	18	51	69	522 FC	
24	4AL15CV021	ATHIRA SURENDRAN	16	53	69	14	62	76	16	52	68	20	61	81	15	60	75	16	60	76	14	37	51	15	55	70	515 FC	2
25	4AL15CV023	BASAVARAJ KANKANODI	16	60	76	17	51	68	15	60	75	18	54	72	15	50	65	18	60	78	16	34	50	17	43	60	494 FC	
26	4AL15CV025 E	BHARGAVIB	17	53	70	16	47	63	19	64	83	18	28	46	17	47	64	18	49	67	15	40	55	17	50	67	460 SC	
27	4AL15CV026 B	HCPATHI L	12	47	59	13	35	48	13	56	69	16	45	61	12	41	53	15	54	69	13	40	53	15	26	41	400 F	
28	4AL15CV027 C	HAITANYA B S	16	64	80	15	53	68	17	44	61	16	47	63	17	55	72	19	57	76	19	40	59	18	35	53	473 SC	
29	4AL15CV028 C	HANNANASAPPA S MAKANUR	13	58	71	14	43	57	15	58	73	16	59	75	12	52	64	15	48	63	14	37	51	16	40	56	459 S	\overline{z}
30	4AL15CV030 D	AMODHAR SHENOY P	19	62	81	16	49	65	20	60	80	20	44	64	18	65	83	19	63	82	17	35	52	18	42	60	515 F	c
	4ALI5CV032 GO		15	66	81	14	49	63	15	57	72	14	37	51	14	63	77	16	60	76	17	37	54	17	38	55	475 S	C
0.	4AL15CV033 Gt		13		63	13	51	64	13	60	73	14	35	49	12	40	52	16	35	51	15	34	49	15	46	61	413 S	c
-		NUMANTH Y MADAR	15	-	80	18	56	74	16	63	79	16	48	64	16	51	67	17	52	69	17	34	51	17	45	62	495 F	\overline{c}
	ALISCV035 HA		15		65	15	59	74	12	50	62	16	66	82	13	44	57	19	51	70	14	40	54	15	36	51	461 S	
-		GADEESH KRISHNA JOGI	17	_	82	16	60	76	17	52	69	19	67	86	16	53	69	17	48	65	13	41	54	16	23	39	486 F	c
_	ALISCVO37 JAC		17	_	76	16		_	20	_	84	20	63	83	18	51	69	19	50	69	14	44	58	14	64	78	536 F	
20 14	JEIDE ANDRING	IADEESHA	1,1	2,1		,																						

٥٨_	4AL13C VU41	IKAKIGUWDA	1 14	1 71	1 85	1 12	1 47	1 59	1 16	1 52	68	191	421	61	131	371	50	17	1 31	1 48	1 16	36	52	1 171	54	711	442	180
39	4AL15CV042	KARTHIK N S	18	_	-		_		-	_			35		-				44	64	15		_					FC
40	4AL15CV046	LEISHEMBA SOIBAM	14	_		_	41	53	17	56			60	_				18	65	83	18	49	67	17	74	-		FC
41	4AL15CV047	MADHU BHAJANTRI	14	62	76	15	59	74	17	56	73	17	58	75	15	60	75	17	54	71	16	34	50	17	71	88		FC
42	4AL15CV048	MAHAMMED JAKEER K	4	60	64	12	48	60	12	68	80	17	34	51	10	59	69	14	45	59	15	54	69	15	55	70	453	SC
43	4AL15CV049	MAHAMMADRASOOL AWATI	14	64	78	14	59	73	15	56	71	18	28	46	10	52	62	17	51	68	14	42	56	16	50	66	464	SC
44	4AL15CV050	MAHESH K N	14	58	72	16	52	68	15	46	61	16	50	66	14	51	65	16	40	56	15	44	59	16	64	80	468	SC
45	4AL15CV053	MANJULA PARAPPA KURBET	17	74	91	17	51	68	19	54	73	20	66	86	18	60	78	20	49	69	18	46	64	18	68	86	551	FC
46	4AL15CV054	MANJUNATH M	12	58	70	12	60	72	12	55	67	17	53	70	15	45	60	16	39	55	15	52	67	15	62	77		SC
47	4AL15CV055	MANJUNATHA K S	16	48	64	15	47	62	15	57	72	19	64	83	14	50	64	18	38	56	15	42	57	17	64	81		FC
48	4AL15CV056	MANOJ KUMAR H M	14	56	70	12	46	58	15	39	54	15	34	49	14	44	58	15	32	47	14	57	71	16	48	64		SC
49	4AL15CV057	MANU P	15	55	70	15	55	70	18	62	80	17	22	39	15	56	71	15	46	61	17	62	79	17	45	-	453	_
50	4AL15CV058	MEGHANA C G	16	73	89	18	60	78	19	76	95	18	64	82	17	44	61	19	56	75	17	74	91	18	62	80		FCD
51	4AL15CV060	MOHANKUMAR SHIVAPPA PUJAR	13	32	45	12	48	60	12	48	60	13	28	41	12	38	50	15	31	46	17	50	67	16	35	51	353	SC
		NO. OF PASS		51			51			51			49			51	_		51	_		49	_		50	\dashv		
		ABSENT		0			0			0	_		0	_		0	_		0	-		0	-		0	\dashv		
		NO.OF FAILS		0			0			0	_		2	_		0	_		0	-	-	2	-		1	\dashv		
	i	% RESULT		100	- 1		100	- 1		100	- 1	9	6.08	- 1		100		1	00		90	5.08		9:	8.04			

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ABSENT 0

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PASS 48

% PASS 94.12%

	CLASS TOP	PERS		1 1
PLACE	USN	NAME	MARKS	%
I	4AL15CV058	MEGHANA C G	560	70
11	4AL15CV053	MANJULA	551	68.875
III	4AL15CV038	JAGADEESHA	536	67

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