





DEPARTMENT OF CIVIL ENGINEERING ACADEMIC YEAR 2022-23 (ODD)

Date: 20.07.2022

CIRCULAR

This is to inform, that our department is going to conduct a **REFRESHER COURSE on QUANTITY SURVEYING** on this academic year 2022-2023, Final year students are requested to enroll their name to Ms.S.GAYATHRI AP/CIVIL on or before **30.07.2022**.

S.efoff:2017122 Coordinator (Ms.S.GAYATHRI AP/CIVIL) HOD/CIVIL (DR.R.SARAVANAN)







REFRESHER COURSE

SUBJECT: QUANTITY SURVEYING

YEAR/SEMESTER: IV/VII

ACADEMIC YEAR: 2022-2023(ODD SEM)

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PREPARED BY
Ms.S.GAYATHRI, AP/ CIVIL

QUANTITY SURVEYING

QUANTITY ESTIMATION UNIT - I

Philosophy - Purpose - Methods of estimation - Types of estimates - Approximate estimates -Detailed estimate – Estimation of quantities for buildings.

RATE ANALYSIS AND COSTING

Standard Data - Observed Data - Schedule of rates - Market rates - Standard Data for Man Hours and Machineries for common civil works - Rate Analysis for all Building works, canals, and Roads-Cost Estimates.

SPECIFICATIONS, REPORTS AND TENDERS

Specifications - Detailed and general specifications - Constructions - Types of specifications -Principles for report preparation - report on estimate of residential building -Roads - TTT Act 2000 - Tender notices.

UNIT IV CONTRACTS

Contract - Types of contracts - Contract conditions - Contract for labour, material, design, construction - Drafting of contract documents based on IBRD / MORTH Standard bidding documents.

VALUATION **UNIT V**

Valuations- Capitalized value - Depreciation - Escalation - Valuation of land - Buildings -Calculation of Standard rent - Mortgage - Lease

TOTAL: 30 PERIODS

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STAFF INGHARGE Ms.S.GAYATHRI

HOD/CIVIL Dr.R.SARAVANAN







Sub. Name: Quantity surveying

Staff Name: Ms.S.Gayathri

Branch/Year/Sem: B.E CIVIL/IV/VII

Batch: 2019-2023

Academic Year: 2022-2023(ODD)

Topic No	Topic	Teaching Methodology	No. of Hours Required	Cumulative No. of periods
UNIT I	QUANTITY ESTIMATE			(04)
1.	Philosophy – Purpose – Methods of estimation	BB/PPT	1	1
2.	Types of estimates	BB/PPT	1 1	2
3.	Approximate estimates – Detailed estimate	BB/PPT	1 200	3
4.	Estimation of quantities for buildings.	BB/PPT	111	4
	nd of unit, students should be able to Jnderstand the concept of Estimate. Estimate the residential building.	agas glotis — Citi — d 100 gas da Million		Chryster, 12
UNIT II	RATE ANALYSIS AND COSTING		and the first and the Ar	(06)
5.	Standard Data – Observed Data – Schedule of rates – Market rates	BB/PPT	2	6
6.	Standard Data for Man Hours and Machineries for common civil works	BB/PPT	2	8
7.	Rate Analysis for all Building works, canals, and Roads-Cost Estimates.	BB/PPT	2	10
At the e • l	NG OUTCOME nd of unit, students should be able to Inderstand about the data collection. Know about schedule of rates. Analysis about rate analysis			
UNIT II	SPECIFICATIONS, REPORTS AND TENDERS		M	(07)
8.	Specifications - Detailed and general specifications	BB/PPT	1 . 1	11
9.	Constructions - Types of specifications	BB/PPT	2	13
10.	Principles for report preparation	BB/PPT	, 2	15
11.	Report on estimate of residential building	ВВ/РРТ	1	16
12.	Roads - TTT Act 2000 - Tender notices.	BB/PPT	1	17

LEARNING OUTCOME

At the end of unit, students should be able to

- Outline the concept report preparation.
- Understand about specification.

	Officerstand about speciments			(07)
UNITI	V CONTRACTS	VIDEO	1 1	18
13.	Contract		1	19
14.	Types of contracts	VIDEO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
15.	conditions - Contract for labor, material, design, construction	BB/PPT	2	21
16.	Drafting of contract documents based on IBRD / MORTH Standard bidding documents.	ВВ/РРТ	3	24

LEARNING OUTCOME

At the end of unit, students should be able to

- Outline about contract system.
- Know the types of contract system.

UNIT V	/ VALUATION			(06)
17.	Valuations - Capitalized value	VIDEO	1	25
18.	Depreciation – Escalation	BB/PPT	1	26
19.	Valuation of land	BB/PPT	1	27
20.	Buildings - Calculation of Standard rent	VIDEO	1	28
21.	Mortgage – Lease	VIDEO	2.17	30

LEARNING OUTCOME

At the end of unit, students should be able to

- Outline the concepts of valuation.
- Know the methods of valuation.
- Understand the terminology in valuation.
- Prepare the value of buildings and other structures.

COURSE OUTCOME

At the end of syllabus, students will be able to

- · Estimate the quantities for buildings,
- Rate Analysis for all Building works, canals, and Roads and Cost Estimate.
- Understand types of specifications, principles for report preparation, tender notices types.
- Gain knowledge on types of contracts.
- Evaluate valuation for building and land.

S. eforfiel8/22 Prepared by

Ms.S.GAYATHRI

Verified by HOD/CIVIL

Format-QP06





DEPARTMENT OF CIVIL ENGINEERING SPECIAL TIME TABLE (1.0.2022 - 6.0.2022, ODD SEM) B.E - CIVIL (Regulation 2017) - With Effect from 1.8.2022

Batch:2019 - 2023

Strength:20

Year: IV

Semester: VII

Class Room: 233

Block: II

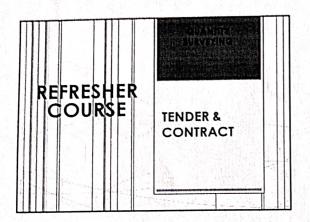
Session	1	2	10.45 am	3		12.30 pm	5	6	02.40 pm	7 7	8
Day	09.15am 10.00am	10.00am 10.45am	11.00 am	11.00am 11.45am	11.45am 12.30pm	01.10 pm	01.10pm 01.55pm	01.55pm 02.40pm	02.50 pm	02.50pm - 03.35pm	03.35pm - 04.20pm
MON	Orien	tation		Ċ	C		соми	LSKILL		В	C A A
TUE	RI	FC		C	c	X	сомм	LSKILL		В	c' l
WED	RI	C	AK	C	C .	BREAK	сомм	.SKILL	AK	В	C
THU	T&P(SS)	T&P(A)	BREAK	c	c S	LUNCH	сомм	LSKILL	BREAK	В	C
FRI	RF	C		C	C	TA TA	СОММ	SKILL		B	C y, while
SAT	RF	C		C	C .	Section of the sectio	сомм	SKILL		В	C

SUB CODE	NAME OF THE SUBJECT	CREDITS	NAME OF THE STAFF	DEPT	PERIODS/WEEK
	VALU	EADDITION	INTIATIVES (VAI)	areas to proceed	
Orientation	Orientation Program	-	Mr.K.Arun	CIVIL	2
COMMISKILL	Communication Skill		Mr.D.Dinesh	ENGLISH	.12
ВС	Bridge Course		Mr.R.Ramchandar	CIVIL	12
RFC	Refresher Course		Ms.S.Gayathri	CIVIL	08
T&P (A)	Training & Placement - Aptitude		Ms.P.Suganya	T&P	30 1 1 1 1 C 1 C 1
T&P(SS)	Training & Placement - Softskill		Dr.K.Sudhakar	T&P	1
cc	Certification Course - Sketchup		Mr.R.Chandrasekar	CIVIL	12

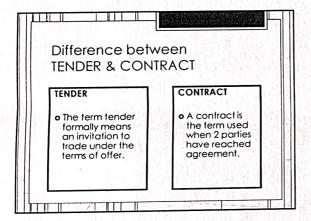
CLASS CO-ORDINATOR	a dispersion	NAME OF THE REPRESENTATIVES	ROLL NO
Mr.KArun	N/9 !	B.Agalya M.Jayaseelan	01

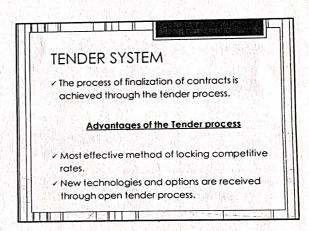
1. 17	VALUE ADDITIO	ITAITAI N	VES (VAI) - REGULAR HOURS		books w
LIB/NET	Library / Internet	VAI	Mr.K.Arun	CIVIL	
NPTEL	NPTEL Swayam Courses	VAI	Mr.K.Arun	CIVIL	
RC	Refresher Course	VAI	Ms.S.Gayathri	CIVIL	2
T&P(A)	Training & Placement - Aptitude	VAI	Ms.P.Suganya	T&P	
T&P(SS)	Training & Placement - Softskill	VAI	Dr.K.Sudhakar	T&P	

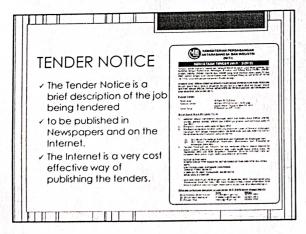
PRINCIPAL

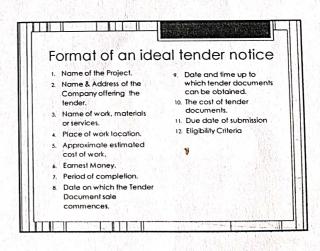


WHAT IS TENDER? Tender is: an offer to contractor to do the work for a certain amount of money incorporate time and other conditions required to carry out the contract requirements main reason is to complete a project The tender which is submitted by the contractor is generally based on a bill of quantities & specifications of the statement of work.





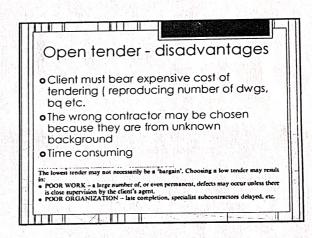


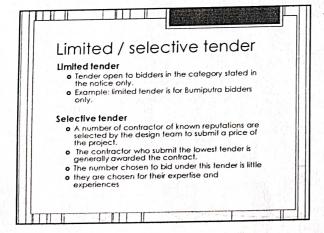


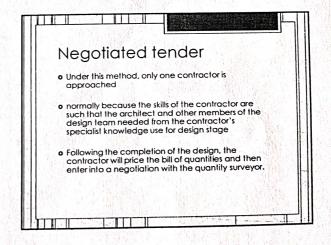
TYPES OF TENDER 1. Open tender (tawaran terbuka) 2. Close tender (tawaran terhad) / Selective tender (tawaran terpilih) 3. Negotiated tender (tawaran perundingan)

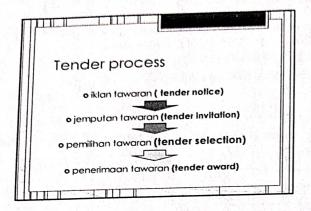
Open tender • Bidding process that is open to all qualified bidders • Tender usually published in the newspaper and internet • chosen on the basis of price and quality. • This is most effective way of obtaining many competitive rates.

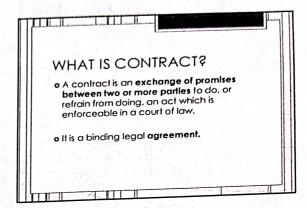
Open tender - advantages • Any contractor can tender their work • No favoritism occurred • maximum competition • No commitment(terikat) to tender, all tender received will be genuine.

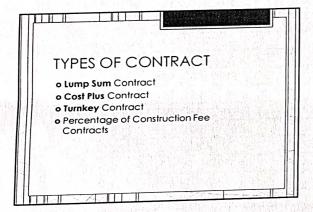


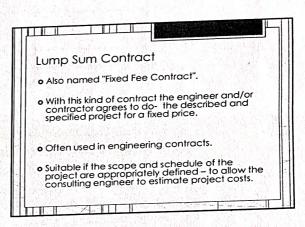


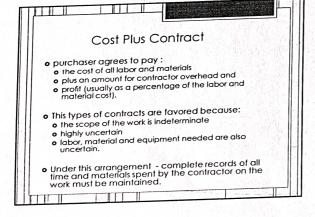


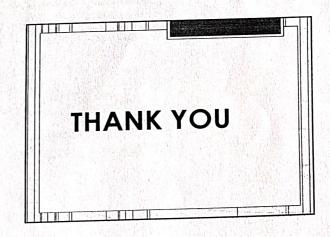


















ACADEMIC YEAR 2022-23 (ODD SEM) RFC-QUANTITY SURVEYING STUDENTS ENROLLMENT

IV YEAR CIVIL / VII SEM

S.No.	Reg. Number	Student Name	Students Signature
1	821119103001	AGALYA B	B. Ngalya
2	821119103002	ANBUMANI S	8. Anbuman
3	821119103003	ARUNKUMAR M	m Aruskuman
4	821119103004	ARUNPRASAD S	S. Ampresed
5	821119103005	DIVYA S	5. Divya
6	821119103006	JANANIT S	T.S. る月.
7	821119103007	JAYACHANDRAN N	N. Fash.
8	821119103008	JAYASEELAN M	M. Jayalas a
9	821119103010	KURALARASAN R	Pludaras on
10	821119103011	MADHUMITHA R	P. Madlunillan
11	821119103012	MONIKA M	M. Mariel
12	821119103013	PREMKUMAR J	J- nenteumo
13	821119103014	RENGESWARI R	Lingiswecky
14	821119103015	RUBIKA M	MdQ:05
15	821119103016	SANTHOSH S	eding.
16	821119103017	SATHYA P	12. 84 HC-
17	821119103018	STALIN P	1.37th
18	821119103019	VIMAL R	D. Vin
19	821119103301	DANIEL NAVIS F	Fillow Tous
20	821119103501	KARTHIKEYAN R	De hallitage
21	821119103501	ABIRAMI	Shower

S. Subject incharge (MS.S.GAYATHRI)

HOD/CIVIL .R.SAD (DR.R.SARAVANAN)







ACADEMIC YEAR 2022-23 (ODD SEM) RFC-QUANTITY SURVEYING Assessment Marks

IV YEAR CIVIL / VII SEM

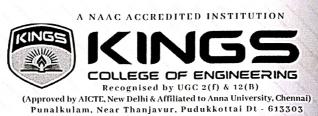
S.No.	Reg. Number	Student Name	Total Marks (50)
1	821119103001	AGALYA B	50
2	821119103002	ANBUMANI S	47
3	821119103003	ARUNKUMAR M	45
4	821119103004	ARUNPRASAD S	45
5	821119103005	DIVYA S	49
6	821119103006	JANANI T S	48
7	821119103007	JAYACHANDRAN N	46
8	821119103008	JAYASEELAN M	50
9	821119103010	KURALARASAN R	50
10	821119103011	MADHUMITHA R	50
11	821119103012	MONIKA M	50
12	821119103013	PREMKUMAR J	42
13	821119103014	RENGESWARI R	50
14	821119103015	RUBIKA M	50
15	821119103016	SANTHOSH S	48
16	821119103017	SATHYA P	50
17	821119103018	STALIN P	50
18	821119103019	VIMAL R	43
19	821119103301	DANIEL NAVIS F	44
20	821119103501	KARTHIKEYAN R	44
21	821119103501	ABIRAMI	47

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SUBJECT INCHARGE (MS.S.GAYATHRI)

HOD/CIVIL (DR.R.SARAVANAN)



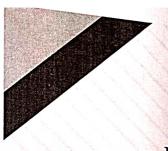


CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. <u>T.S.JANANI</u> of <u>IV YR</u> Civil Engineering has completed <u>REFRESHER COURSE</u> in the topic <u>QUANTITY SURVEYING</u> organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during <u>AUGUST 2022</u>.

Ms.S.GAYATHRI COURSE INCHARGE

Dr.R.SARAVANAN HOD/CIVIL Dr.J.ARPUTHA VIJAYA SELVI PRINCIPAL







CERTIFICATE OF APPRECIATION

This is to certify that P.STALIN of IV YR Civil Mr./Ms. Engineering has completed REFRESHER COURSE in the topic QUANTITY SURVEYING organized by the Department of Civil Engineering, Kings College of Engineering, Thanjavur, during AUGUST 2022.

Ms.S.GAYATHRI COURSE INCHARGE

Dr.R.SARAVANAN HOD/CIVIL

Dr.J.ARPUTHA VIJAYA SELVI PRINCIPAL