

DR.T.THIMMAIAH INSTITUTE OF TECHNOLOGY

OORGAUM, K.G.F. – 563 120.

DETAILS OF THE BUILT UP AREAS AVAILABLE AT DR. T.THIMMAIAH INSTITUTE OF TECHNOLOGY

2021-2022

I. INSTRUCTIONAL AREA (CARPET AREA)

Sl No	Particulars	No	L X B	RCC Building (in Sqm)	
01.	Class rooms				
	Ground Floor	08	8.00 x 8.00	563.20	
	First Floor	05	8.80 x 8.00	352.00	
	Second Floor	04	8.80 x 8.00	281.60	
	Second Floor	01	11.50 x 8.00	92.00	
	First Floor	06	9.00 x 7.90	426.60	
	First Floor	01	8.54 x 9.15	78.41	
	Class room Ground Floor	04	8.54 x 7.54	257.57	
	First Floor	04	8.54 x 7.54	257.57	
	Second Floor	04	8.54 x 7.54	257.57	
		37		2566.52	
02.	Tutorial Rooms	04	6.60 x 4.00	105.60	
	First Floor	02	15.52 x 8.77	270.00	
		02	8.00 x 8.88	142.08	
		01	7.55 x 4.26	32.16	
		09		549.84	
03.	Drawing Halls				
	CAED	FF	02	8.80 x 15.32	269.64
			02	269.64	
04.	Seminar hall	01	9.00 x 10.82	97.38	
		01	18.14 x 7.54	136.77	
		02		234.65	
05.	Conference hall	01	9.00 x 9.60	86.40	
		01		86.40	
				1140.53	
06.	Learning Centre	02	21.00 x 30.00	1260.00	
		02		1260.00	
	TOTAL CARPET AREA			4967.05	

First Year Laboratories

Sl. No.	Laboratories	Required Area Sq.mts	Semester	Area available Sq.mts
01.	Chemistry	200	I & II	202.07
02.	Physics	200	I & II	97.00
03.	Computer Centre (Central facilities)	150	I & II	214.80
04.	Workshop	200	I & II	813.27
05.	CAED DH 1 + N W lab 1	100	I & II	232.20
		850		1559.34

[Signature]
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II. Second Year Onwards

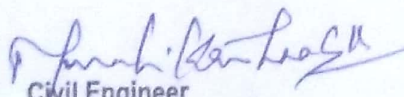
Mining Engineering

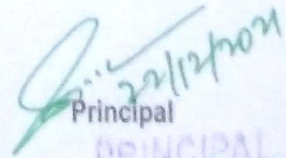
Sl. No.	Laboratories	Required Area Sq.mts	Semester	Area available Sq.mts
01.	Mining Geology I & II	75	III & IV	91.00
02.	Mining Electrical Engg	300	III	297.68
03.	Mine Surveying lab I & II	150	IV & V	150.00
04.	Mine Machinery Lab	150	V	150.00
05.	Mineral processing lab	150	VI	150.00
06.	Mine Environmental Lab	150	VI	150.00
07.	Rock Mechanics lab	150	VII	150.00
08.	Computer applications in Mining lab	50	VII	84.64
		1175		1223.32

Shared = 382.32

Mechanical Engineering

Sl. No.	Laboratories	Required Area Sq.mts	Semester	Area available Sq.mts
01.	Metallography & Material Testing lab/Mechanical measurements Lab I & II	100	III & IV	148.84 + 139.08 = 287.92
02.	Foundry & Forging Lab I & II	200	III & IV	297.68
03.	Energy conversion Lab	100	V	148.84
04.	Computer Aided Modelling & Analysis lab	100	VI	139.08
05.	CIM & Automation lab		VII	---
06.	Design lab	100	VII	84.64
07.	Heat & Mass transfer lab	200	VI	91.00
08.	Machine shop I & II	200	III & VI	297.68
09.	Metrology & Instrumentation lab	100	III & IV	139.08
10.	Fluid Mechanics lab	200	VII	148.84
		1300		1634.76


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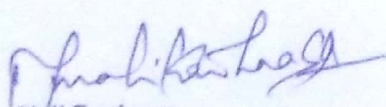
Computer Science Engineering

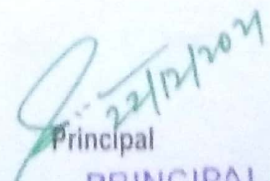
Sl. No.	Laboratories	Required Area Sq.mts	Semester	Area available Sq.mts
01.	Data Structures Lab/Oops	100	III & IV	136.04
02.	Electronic Circuits & Logic Design Lab/ Microprocessors Lab	100	III & IV	113.50
03.	Operating Systems lab/ Computer Network lab	100	III & IV	136.04
04.	Algorithms lab/DBMS lab	100	V & VI	106.99
05.	System programming lab	100	VII	136.04
06.	Internet Programming lab	100	VII	31.39
07.	Laboratory	100		136.86
		700		796.86

Sharing = 113.50

Civil Engineering

Sl. No.	Laboratories	Required Area Sq.mts	Semester	Area available Sq.mts
01.	Building Materials lab	100	III & V	125.00
02.	Fluid Mechanics lab	100	III & V	125.00
03.	Surveying lab	100	IV & VI	125.00
04.	Engineering Geology lab	100	IV	125.00
05.	Geo Technical lab	100	V & VII	125.00
06.	Concrete & High way lab	100	V & VII	125.00
07.	Environmental lab	100	VII	125.00
		600		875.00


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Electrical & Electronics Engineering

Sl. No.	Laboratories	Required Area Sq.mts	Semester	Area available Sq.mts
01.	Analog Electronics Lab/ Power Electronics lab	100	III & IV	139.00
02.	Logic Design lab/ Micro controllers lab	100	III & IV	95.00
03.	Circuit Simulation and Measurements lab/ Control Systems lab	100	V & VI	74.42
04.	Transformers and Induction Machines lab/ DC lab	200	V & VI	297.68
05.	Relay and High Voltage lab	150	VII	150.00
06.	Power System Simulation lab	150	VII	74.42
		800		830.52

Shared = 95.00

Electronics & Communication Engineering

Sl. No.	Laboratories	Required Area Sq.mts	Semester	Area available Sq.mts
01.	Analog Electronics Lab	100	III	81.20
02.	Logic Design lab/ HDL lab	100	III & IV	78.90
03.	Microcontrollers lab/DSP lab	100	IV & V	213.90
04.	Analog Communication lab + LIC lab/Advanced Communication lab	100	V & VI	63.00
05.	Micro controllers lab/ Microprocessors lab	100	V & VI	95.00
06.	VLSI lab	100	VII	95.00
07.	Power Electronics lab	100	VII	81.20
		700		708.20

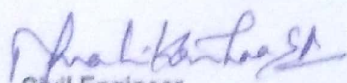
Total Carpet Area of RCC + AC Sheet = (8313.54 + 3950.46) = 12264.00

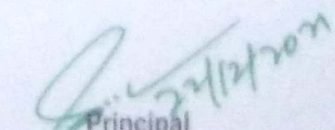
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|---|-----------|
| a) Existing instructional areas of class rooms, tutorial rooms, drawing halls | = 3376.00 |
| b) Existing instructional areas of laboratories and workshops | = 7628.00 |
| c) Existing instructional areas of Library | = 1260.00 |

Total area 12264.00

$$355 \times 4 = 1420$$

$$12264.00 / 1420 = 8.63 > 6$$


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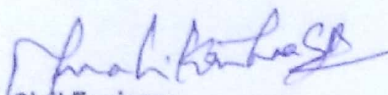
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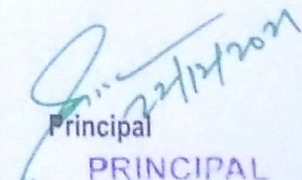
II. ADMINISTRATIVE AREA (CARPET AREA)

Sl No	Particulars	No	L X B	RCC Building (in Sqm)
	Administrative Block			
	Principal's Room	01	11.60 x 6.20	72.00
	Main Office	01	8.00 x 6.20	50.00
	Record Room	01	3.60 x 3.50	13.00
	Examination center	02	3.60 x 3.50	26.00
	Confidential Room	01	3.60 x 3.50	13.40
	President's Chamber HOD chamber Ground floor	01	8.00 x 6.20	50.00
	Staff room GF	04	4.27 x 3.66	62.51
	Staff room	01	30.48 x 6.55	199.64
	Staff room	02	15.77 x 4.27	134.67
	Staff room	01	23.32 x 4.27	99.58
	HOD room First Floor	01	3.66 x 7.32	26.79
	HOD room Second Floor	02	15.77 x 4.27	67.34
	Staff room	02	15.77 x 4.27	67.34
	Junior Hostel	01	10.97 x 4.27	46.84
	Senior Hostel	02	3.66 x 4.88	35.72
	Ladies Hostel	02	4.27 x 6.40	54.65
	Ad block of hostels	01	4.27 x 6.40	27.33
	Staff room Ground Floor	04	12.19 x 12.19	594.38
	Staff room First Floor	01	7.80 x 6.60	103.00
	President chamber Ground Floor	01	7.80 x 6.60	103.00
	Staff room Ground Floor	01	9.00 x 7.90	71.10
	Staff room First Floor	01	8.54 x 7.54	64.39
	Staff room Second Floor	01	8.54 x 7.54	64.39
		01	8.54 x 7.54	64.39
		36		2111.06

$$355 \times 4 = 1420$$

$$2111.06 / 1420 = 1.49 > 1$$


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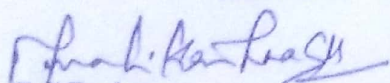

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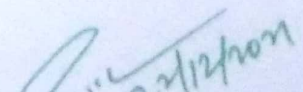
III. AMENITIES AREA (CARPET AREA)

Sl No	Particulars	No	L X B	RCC Building (in Sqm)	AC Shed (in Sqm)
	Others				
	Junior Boys Hostel Ground Floor+First F				
	Senior Boys Hostel GF+FF	02	12.00 x 67.00	1608.00	
	New Ladies Hostel Block (TIFR)				
	Junior Mess Block	02	20.00 x 75.00	3000.00	
	Senior Mess Block Ground Floor+First Floor				
	GVIT Guest House	01	---	1627.00	
	Medical center	01	23.80 x 25.00	595.00	
	Prof Bungalows				
	Staff Toilet	02	17.00 x 22.00	748.00	
	Ladies Toilet				
	Boys Toilet	01	20.00 x 25.00		500.00
	Bus shed & Van shed	01	14.00 x 14.0		196.00
	Generator room	02	14.00 x 14.0		392.00
	Guard room	02	4.25 x 5.50	46.00	
	Pump House	01	7.60 x 6.10	47.00	
	Edusat Hall	01	10.00 x 3.00		30.00
	Guest House	01	12.00 x 14.00		168.00
	Students center	01	7.50 x 3.75		28.00
	a) Seminar hall	01	3.00 x 4.00	12.00	
	b) Gym center	01	14.70 x 8.00	118.00	
	Canteen				
	Kitchen				500.00
	Canteen	01	15.50 x 8.60		133.00
	d) Cooperative society	01	22.50 x 13.50		303.75
	e) Amphi - theatre	01	10.125 x 9.00		91.125
	toilets	01	18.00 x 6.75		121.50
	toilets	01	36.00 x 5.545		199.62
	office	01	4.50 x 6.75		30.375
	staff toilet Ground Floor	01	50.00 x 50.00		2500.00
	staff toilet First Floor	04	2.90 x 2.30	26.70	
	staff toilet Second Floor	01	4.70 x 5.10	24.00	
	toilet First Floor	02	4.70 x 5.10	24.00	
	Toilet Second Floor	01	1.52 x 1.83	2.78	
		01	1.52 x 1.83	2.78	
		01	1.52 x 1.83	32.72	
		01	1.52 x 1.83	32.72	
		01	7.54 x 4.34	32.72	
		38		7982.20	5193.38

Total area for the amenities = (7982.20 + 5193.38) = 13175.58

$355 \times 4 = 1420$ $13175.58 / 1420 = 9.28 > 2$


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IV. CIRCULATION AND OTHER AREA

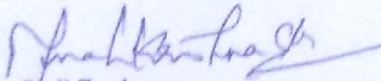
Sl No	Particulars	No	L X B	RCC Building (in Sqm)
01	Hostels toilet block			
	Administrative toilet blocks	04	10.67 x 18.29	780.61
	Boys toilet	08	4.27 x 3.66	125.02
	Girls toilet	08	3.66 x 3.66	107.16
	Corridor	02	4.57 x 8.54	78.05
		01	10.97 x 4.27	46.84
		03	2.74 x 33.54	275.69
		06	15.85 x 1.83	174.03
		01	2.59 x 23.48	60.81
		02	1.83 x 23.17	84.80
		03	10.97 x 1.83	60.22
	Hostels corridor	12	2.44 x 30.49	223.18
		03	18.29 x 1.83	401.64
		08	7.32 x 4.88	285.77
		02	67.07 x 2.44	327.30
		02	7.32 x 10.97	160.60
		02	76.22 x 2.44	371.95
	corridor	01	15.24 x 15.24	464.52
	Entrance lobby	02	60.50 x 3.80	459.80
	Portico	01	9.00 x 9.60	86.40
	Porch Ground Floor	01	9.00 x 9.60	86.40
	Porch Ground Floor	01	6.10 x 4.27	26.05
	PorchCorridor Ground Floor	01	6.10 x 4.27	26.05
	Corridor Ground Floor	01	6.10 x 4.27	26.05
	Corridor Ground Floor	01	83.91 x 2.74	229.91
		01	83.91 x 2.74	229.91
		01	83.91 x 2.74	229.91
				5428.67

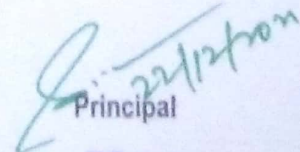
Total circulation and other area = 5428.67

Total play ground area = 30402.38

Total area = 35831.05

30% of = 10749.32 sqm


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