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REPORT SUBMITTED
TO THE
UNIVERSITY OF MADRAS
FOR RECOGNITION OF
THE DEPARTMENT OF CIVIL ENGINEERING
IN
CONDUCTING RESEARCH FOR
PH.D. DEGREE

May, 1972

GOVERNMENT COLLEGE OF TECHNOLOGY
COIMBATORE-13.

HEREAFTER.

The report that is being presented in the following pages contains information regarding the availability of qualified staff, Scientific Journals and Periodicals, Library Books and Laboratory Equipments in the Department of Civil Engineering of the Government College of Technology, Coimbatore-13. This is in response to University's communication No. Ph.D, 416 dated 18.1.1972 from the Controller of Examinations, University of Madras, University Buildings, Madras-25 addressed to the Principal, Government College of Technology, Coimbatore-13.

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1) BRIEF HISTORY OF INSTITUTION.

The Government College of Technology was started in the year 1945. This institution has grown steadily and the Silver Jubilee of the institution was celebrated in the year 1971.

The College campus is situated in a fine locality over an area of 100 acres, just opposite to the Tamilnadu Agricultural University. College and hostel buildings at a cost of Rs. 94 lakhs were constructed to accommodate 1000 students. The College offers four courses for the undergraduate students, leading to the award of the degrees in Civil, Mechanical, Electrical and Electronics Engineering.

Post-graduate courses in (1) Structural Engineering and (2) Engineering Design are conducted in this College. The laboratories are well equipped for the post-graduate courses. The affiliation of the University has been granted to start a third post-graduate course in Servo-mechanism from the coming academic year.

2) DEPARTMENT OF CIVIL ENGINEERING.

The department has extensive laboratories, equipped with modern machines, testing devices and instrumentation in various disciplines. The Civil Engineering Department has been conducting the under-graduate course in Civil Engineering from the very inception of this institution, which means over 25 years.

The department has been very active in conducting symposia, seminars, project works and model projects with a view to impart practical knowledge to the students in the field of Civil Engineering as well as to inculcate a thirst for research in minds of the students of the branch of Civil Engineering. The following are the abstract details of the laboratories in the Department of Civil Engineering

Sl. No.	Name of Laboratory	Carpet area of built-up accommodation	Total cost of equipment available.
1.	Strength of Materials and Structures Testing Lab.	670 sq.m.	Rs. 3.75 lakhs
2.	Soil Mechanics and Road Engineering Lab.	265 sq.m.	Rs. 1.35 lakhs
3.	Hydraulics and Public Health Engineering Lab.	820 sq.m.	Rs. 3.60 lakhs
4.	Survey Laboratory	170 sq.m.	Rs. 2.40 lakhs

The department of Structural Engineering, which has been a vital part of the department of Civil Engineering hitherto, has shown remarkable progress to identify itself as a new department of this College in recent years. This is evident from the fact that the post-graduate course in Structural Engineering has been started successfully in this College. An IBM Key Punching Machine and two Electronic Calculators have been purchased to facilitate post-graduate and research programmes to be carried out at ease. Some more modern equipments, which are essential for the post-graduate and research works are being procured, please vide Page 15.

All the teaching staff of this department hold M.Sc. degree. In addition, a member of this department holds a Doctorate in Structural Engineering.

3) STAFF.

The existing teaching staff position of the department of Civil Engineering is as follows:

Sl. No.	Name of Post	No. of Posts existing.	
		Under-graduate	Post-graduate.
1.	Professor	2	(Sanction applied for) 1
2.	Asst. Professor	4	1
3.	Lecturer	6	-
4.	Assoc. Lecturer	10	-

N.B.: Total No. of posts of teaching staff of the Department of Civil Engineering : 24.

The qualifications and experiences of the existing teaching staff are given in Annexure I.

4) EQUIPMENT.

All the existing laboratories can be utilised for the post-graduate and Ph.D. research. The value of the existing lab equipments is Rs.12 lakhs. The list is furnished in Annexure II.

5) LIBRARY.

The College has a very well equipped library, housed in a beautiful modern building, having ample space for stacking books and periodicals separately. This library is of open

access type to enable the staff and students to utilise the library facilities most freely. The library is considered to be one of the best equipped technical libraries of this State. Technical books on Civil, Mechanical, Electrical and Electronics Engineering, on Mathematics, Physics and Chemistry and popular and useful journals, periodicals and other publications necessary for the research work as well as for the general studies are amply provided to the upto-date requirements.

1. Total number of books	:	25,200
2. Back volumes of Journals (Indian and foreign)	:	2,600
3. Indian Journals subscribed	:	43

6) OTHER INFORMATIONS:

A card punching machine (IBM 29) is available in this College giving the basic amenity in the College itself. For computations the digital computer available in the College of Engineering, Guindy will be utilised.

The College workshop offers all facilities to use the most sophisticated machines like lathes, shapers and planers, to facilitate speedy fabrications of formwork for research programmes. The upgrading of this institution to the research degree level will assist improving the under-graduate and post-graduate standards. A large number of members of the faculty of Civil Engineering are desirous of registering for Ph.D. programmes.

ANNEXURE I.

Teaching Staff available in the Department of Civil Engineering - their qualifications & experience.

Sl. No.	Name	Designation.	Qualifications	Experience	Specialisation.
1.	Dr. P.S.Natarajan	Prof. of Civil Engineering.	B.E.(Civil), M.S. Ph.D.(Strl.Engg.)	21 years	Structural Engineering.
2.	Thiru R.Palanivelu	Asst.Prof. in Civil Engg.	B.E., M. So. (Engg.)	20 years	Structural Engineering.
3.	Thiru C.Semmathan	-do-	B.E., M. So. (Engg.)	18 years	Soil Mechanics.
4.	Thiru N.Saranathan	-do-	B.E., M.E.,	17 years	Water resources and developments.
5.	Thiru N.Narasimhan	-do-	B.E., M. So. (Engg.)	12 years	Structural Engg.
6.	Thiru T.Anantharajan	Lecturer in Civil Engg.	B.E., M.E.,	9 years	Soil Mechanics.
7.	Thiru G.A.Kumaresan	-do-	B.E., M. So. (Engg.)	10 years	Structural Engineering.
8.	Thiru A.Elangovan	-do-	B.E., M. So. (Engg.)	8 years	Structural Engineering.
9.	Thiru C.Nuthalakkanan	-do-	B.E., M. So. (Engg.)	9 years	Structural Engg.
10.	Thiru N.Gnanasekaran	Associate Lecturer in Civil Engg.	B.E., M. So. (Engg.)	6 years	Structural Engg.
11.	Thiru N.Ramamathan	-do-	B.E., M. So. (Engg.)	5 years	Structural Engg.
12.	Thiru V.Kuttirajan Jeyasingh	-do-	B.E., M. So. (Engg.)	2 years	Soil Mechanics.
13.	Thiru B.Kasturi	-do-	B.E., M. So. (Engg.)	5 years	Hydraulics.

Sl. No.	Name	Designation	Qualifications	Experience	Specialisation
14.	Thiru S.L.Narasimhan	Assoe.Lecturer in Civil Engg.	B.E., M. Sc. (Engg.)	4 years	Soil Mechanics.
15.	Thiru R.Chendrasekaran	-do-	B.E., M. Sc. (Engg.)	4 years	Structural Engg.
16.	Thiru V.Ramrajani	-do-	B.E., M.E.	2 years	Hydraulics.

Teaching staff of other departments whose assistance can be availed.

Sl. No.	Name	Designation	Qualifications	Experience	Specialisation
1.	Prof. K. S.Hegde	Principal	B.E., M.A. (Engg.), (Stanford)	24 years	Electronics and Electrical commu- nications.
2.	Prof. V.N.Sajeer	Prof. of Elec. Engineering	B.E., M. Sc. (Toronto)	25 years	Electrical Engg.
3.	Prof. P. S.J.Manicka- vesagan	Prof. of Mathematics	M.A.,	22 years	Applied Mathematics
4.	Prof. N.Joseph	Prof. of Mech. Engineering	B.E., M. Sc. Tech, (Manchester)	24 years	Industrial management.
5.	Prof. K.S.Krishna- moorthy	Prof. of Physics	B. Sc. (Hons.)	28 years	Applied Physics.
6.	Thiru V.Krishnamoorthy	Asst.Prof. in Electronics Engg.	B.E., M. Sc. (Engg.)	7 years	Electronics Engg.
7.	Thiru A. V. Sankara- subramanian	Asst. Prof. of Mathematics	M. Sc.	14 years	Applied Mathematics

5. Dr. P.S.Natarajan

"Analysis of composite structures by the finite element method" - to be presented at the symposium on "Finite Element Techniques of Structural Analysis" to be held in August 1972, at Jodhpur.

6. Thiru R.Palandivelu

"Behaviour and ultimate strength of eccentrically loaded R.C.C.Hollow columns" - Thesis submitted to the Madras University for M.Sc.(Engg.) Degree in 1967.

7. Thiru N.Saraswatham

"Butress Dams with particular reference to BHAS project - Thesis submitted to the University of Roorkee, for M.E. degree in 1959.

8. Thiru N.Narasimhan

"Ultimate strength of eccentrically loaded steel columns" Thesis submitted for M.Tech. degree in 1971 at the Indian Institute of Technology, Kharagpur.

9. Thiru T.Amirtharajan

"Design of stability of slopes and sheet piles by different methods" - thesis submitted to the Indian Institute of Science, Bangalore for M.E.Degree, in 1961.

10. Thiru T.Amirtharajan

"Estimation of OBR value using plungers of small diameter" - ISI Bulletin, March, 1966.

THESES AND RESEARCH PAPERS PUBLISHED BY THE SWAFF.

1. Dr. P.S.Natarajan "Effect of walls on structural response to earthquakes" - Thesis submitted for the degree of Ph. D., to Michigan state University, 1970 by Dr. P.S.Natarajan.
2. Dr. P.S.Natarajan "Effect of walls on Structural Response to earthquakes" - by Dr. P.S.Natarajan and Dr. R.K.Wen, ASCE National Structural Engineering Meeting, Portland Oregon, April, 1970.
3. Dr. P.S.Natarajan "Seismic Response of Frame - Wall systems" by Dr. P.S.Natarajan and Dr. R.K.Wen, paper submitted to the American Society of Civil Engineers.
4. Dr. P.S.Natarajan "Application of Flament solution for stresses beneath embankments" - paper presented at the Annual meeting, Insttutor Engineers (India), Madras Centre, December, 1962.

11. Thiru T. Anantharajan "Correlation of Physical Properties of soils" - presented at the VI General meeting of the Indian National Society of Soil Mechanics and Foundation Engineering by Thiru T. Anantharajan and Thiru S. Radhakrishnan.
12. Thiru G.A. Kumaresan "Structures for nuclear effects" - thesis submitted to the Madras University for M.Sc. (Engg.) degree in 1967.
13. Thiru C. Muthulakshanan "Behaviour and ultimate strength of R.C. hollow circular columns subjected to eccentric loading" - thesis submitted to the Madras University for M.Sc. Degree in 1969.
14. Thiru A. Elangoan "Tensile strength of concrete by ring test" - Thesis submitted to the University of Madras for M.Sc. (Engg.) Degree in 1970.
15. Thiru N. Gnanasekaran "Behaviour and Ultimate strength of Axially loaded hollow columns" - thesis submitted to the University of Madras for M.Sc. (Engg.) Degree in 1966.
16. Thiru N. Ramanathan "Ultimate shear strength of prestressed concrete - pretensioned thin webbed I beams without and with web reinforcement under concentrated and uniform loadings" - thesis submitted to Annamalai University for M.Sc. Engineering Degree in 1968.
17. Thiru R. Chandrasekaran "Finite Difference Method of analysis of a semi-circular plate" - thesis submitted to the University of Madras for M.Sc. (Engg.) degree in 1967.
18. Thiru S.L. Narasimhan "A study on the behaviour of light buildings on expansive soils in Madras city" - thesis submitted to the University of Madras for M.Sc. (Engg.) degree in 1968.
19. Thiru B. Kasthuri "Seour around obstructions" - thesis submitted to the Annamalai University for M.Sc. (Engg.) degree in 1966.
20. Thiru V.K.R. Jayasingh "The hydrogeologic characteristics of some of the South Indian Aquifers and their confirmation by typical pump tests" - thesis submitted to the Annamalai University for M.Sc. (Engg.) degree in 1967.

50 Tonne capacity	-	1 No.
20 Tonne capacity	-	1 No.
25 Tonne capacity	-	1 No.
10 Tonne capacity	-	1 No.
2 Tonne capacity	-	1 No.
0.4 Tonne capacity	-	1 No.

Steps have been taken to procure 2 nos. of Proving Rings, 5 Ton capacity.

(11) For Casting Structural Elements:

(a) Self-stressing pre-tensioning, prestressing bed ... 1 No.

Max. capacity -- 30 tonnes.

Max. Span length -- 4.5 metres.

(b) Steel Moulds of adjustable cross section (20 cm x to 35 cm.) and length (1m to 4 m) -- 1 set.

EQUIPMENTS AVAILABLE IN THE LABORATORY:

(1) For Testing Structural Elements:

(a) Self-Straining Loading Frame, with Hinge Blocks,

Spherical Seating, Distribution beams etc.

Complete ... 1 No.

Max Capacity ... 30 tonnes. Beams columns slabs

Max Span Length 7 metres and portal frames can

Max Height 1.6 metres be conveniently tested

(b) Accessories:

(1) Hydraulic Jacks for loading:

50 Tonne capacity - 1 No.

30 Tonne capacity - 1 No.

25 Tonne capacity - 1 No.

Can be operated by remote control - necessary pump, unit with pressure hose available.

30 Tonne capacity - 2 Nos.

20 Tonne capacity - 3 Nos.

15 Tonne capacity - 6 Nos.

12 Tonne capacity - 2 Nos.

10 Tonne capacity - 6 Nos.

8 Tonne capacity - 2 Nos.

Hand-Jawer operated.

(2) Proving Rings:



Accessories:

- (1) Gifford Udall Jack and pump 5 tonnes capacity (Hand operated) 2 Nos.
- (2) Grout Pump 1 No.
- (3) Anchorage Plates, Grips and H.T. Steel wires of diameter 3mm to 7mm are available in sufficient quantity.
- (4) Internal Vibrator electrically operated with 1/4 H.P. Wolf Motor:
 - 12mm dia. 1 No.
 - 25mm dia. 1 No.
- (5) A large curing tank of size 7m x 3m x 1m is available inside the laboratory itself.

N.B: A 6 tonne capacity jack and pump, electrically operated will be procured shortly.

INSTRUMENTATION TECHNIQUES:

1. Extensometers and deflectometers:

- (a) Lindlay's ext Extensometer - 1 No.
 - (b) Huggenberger Extensometer - 1 No.
 - (c) Mirror Extensometer - 1 No.
 - (d) Dial Extensometer - 1 No.
 - (e) Demountable Mechanical Strain Gauge 2 Nos.
 - (f) Ansler Extensometer - 1 No.
 - (g) Hounsfield Extensometer - 1 No.
 - (h) Whitmore Strain Gauge - 1 No.
 - (i) Compressometer - 1 No.
 - (j) Deflectometer - 1 No.
 - (k) S.R.-4 Electrical Resistance gauges 200 Nos.
2. Dial Gauges (25mm & 12mm travel) - 86 Nos.
3. Electrical Strain Measuring Bridges - 2 Nos.
- (to measure dynamic and static strains)

4. Begg's Deformeter - 1 No.
5. Oscilloscope - 1 No.
6. Photo-Elastic Bench with all accessories - 1 No.
7. Electronic Desk Calculator - 2 Nos.

N.B: Arrangements have been made to procure one 30 step programmable calculator with on-line printer.

AUXILIARY TESTING MACHINES AND EQUIPMENT:

(1) Cement and Concrete Testing:

1. Cement testing Machine - 1 No.
2. Cement Testing Recorder - 1 No.
3. Le-chatlier's apparatus - 1 No.
4. Vicat Needle apparatus - 2 Nos.
5. Cement Autoclave - 1 No.
6. Datta's combined cement and concrete testing machine - 1 No.
7. Compaction Factor Apparatus - 1 No.
8. Slump cone apparatus - 1 No.
9. Leonard Farnell Flow Test table 1 No.
10. Jaw crusher for stone metals - 1 No.
11. Sieve Shaking Machine - 1 No.
12. Concrete Mixers (Electrically operated) - 2 Nos.
13. Immersion Vibrators - 4 Nos.
14. Table Vibrator - 1 No.
15. Hot-air drying oven - 1 No.
16. Refrigerating Container - 1 No.
17. Platform type weighing Balances:
 - 50 Kg. capacity - 1 No.
 - 300 Kg. capacity - 1 No.

- 18. Steel Plates, Rods and Angles shearing machine - 1 No.
- 19. C.I.Cube Moulds 15cmx15cmx15cm -12 Nos.
- 20. C.I.Cylinder 30cmx15cm dia - 7 Nos.
- 21. C.I.Prisin Moulds 50cmx10cmx10cm - 4 Nos.
- 22. C.I.Cubes 10cm x 10cm x 10cm - 6 Nos.

N.B: Moulds for casting R.C.C. and Prestressed Structural I sections of different sizes are being fabricated.

MACHINES AND APPARATUS FOR TESTING STRENGTH OF MATERIALS:

- 1. 25 Tonne Ansler Universal Testing machine - 1 No.
- 2. 100 Tonne Avery Universal Testing machine - 1 No.
- 3. 10 Tonne Avery Universal Testing machine - 1 No.
- 4. Ansler Universal Wood Testing machine - 1 No.
- 5. Ansler Pendulum Impact Tester - 1 No.
- 6. Avery Torsion Testing Machine - 1 No.
- 7. Ansler Spring Testing Machine - 1 No.
- 8. Ansler Torsion Testing Machine - 1 No.
- 9. 200 Tonne capacity compression tester - 1 No.
- 10. Fatigue testing machine - 2 Nos.
- 11. Creep Testing Machine - 1 No.
- 12. Belt Testing Machine - 1 No.
- 13. Electro-magnetic crack detector - 1 No.
- 14. Brinell Hardness Testing Machine - 1 No.
- 15. Vicker's Pyramid Hardness Tester - 1 No.
- 16. Ansler Ductility Tester - 1 No.
- 17. Rockwell Hardness Testing machine - 1 No.
- 18. Hounsefield Tensometer - 2 Nos.

8. Liquid limit apparatus - 1 No.
9. Field density apparatus - 1 No.
10. Triaxial compression apparatus - 2 Nos.
11. Permeability test apparatus - 1 No.
12. Plate bearing test equipment - 1 No.
13. California Bearing Ratio apparatus - 1 No.
14. Electrical Analogy apparatus with
Oscilloscope - 1 No.
15. Bishop's Pore Pressure apparatus - 1 No.
16. Photo Electric Turbidity meter - 1 No.
17. I. S. S. Sieves - 1 set.
18. B. S. S. Sieves - 1 Set.
19. Sieve Shaker - 1 No.
20. Abrasion testing machine - 2 Nos.
21. Sun and Planet Mechanical Mixer - 1 No.

- 19. Cathetometer - 1/2 meter reading - 1 No.
- 20. Cathetometer - 1 meter reading - 1 No.
- 21. Concrete test Hammer - 1 No.
- 22. Portable Jib Crane 1 Tonne capacity - 1 No.
- 23

SOILS TESTING EQUIPMENT:

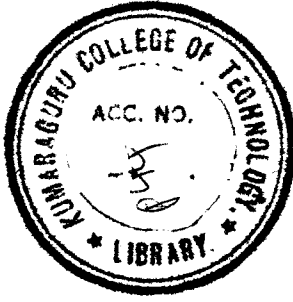
- 1. Motorised Load Frame - 1 No.
- 2. Triaxial cell - 1 No.
- 3. Auto-level consolidometer - 1 No.
- 4. Consolidation apparatus - 1 No.
- 5. Unconfined compression tester - 1 No.
- 6. Density determination apparatus - 1 No.
- 7. Proctor Compaction apparatus - 3 Nos.

22. Attrition testing machine	-	1 No.
23. Hubbar Field Test apparatus	-	1 No.
24. Viscometer	-	1 No.
25. Constant head Permeameter	-	1 No.
26. Ball Mill	-	1 No.
27. Vane Shear Test Apparatus	-	1 No.
28. Soil Centrifuge moisture apparatus	-	1 No.
29. Seepage Model	-	1 No.
30. Splitting Grinding and Polishing machine	-	1 No.
31. Thermostatically controlled water bath	-	1 No.
32. Moist chamber	-	1 No.
33. Hot air drying ovens	-	3 Nos.
34. Mechanical compactor	-	1 No.
35. Mechanical Stirrer	-	1 No.
36. Device for rotating jars	-	1 No.

EQUIPMENTS PLANNED TO BE PROCURED DURING FIFTH FIVE YEAR PLAN PERIOD.

Total estimated cost Rs. 7,00,000-00

1. Strain Measuring Devices
2. Pressure Cells.
3. Transducers.
4. Mobile cranes.
5. Vibrators.
6. Concrete Mixers.
7. Hydraulic Jacks.
8. Air Compressors.
9. Pulsators including Static and Dynamic Control panel.
10. Deck Calculator.
11. 200 Tonne capacity VM.
12. Exciters of various capacities.



13. Uni-axial Vibration Exciters.
14. Cathode Ray Oscilloscope - Double beam.
15. Bi-Axial Vibration Exciter.
16. Low frequency Pulse Generator.
17. Low frequency Oscilloscope.
18. Transducer Amplifier.
19. Vibrograph.
20. Displacement Pickups.
21. Capacitance, Inductance etc.

N.B: Item Nos. 1, 2, 12, 14, 16 to 18, and 21 are already available in the Electrical and Electronics Department of this College. Improved types of the above, for special purposes are proposed to be purchased by the Structures Laboratory.

ENGINEERING JOURNALS SUBSCRIBED FOR BY THE COLLEGE LIBRARY.

1. Journal of Cement and Concrete.
2. Civil Engineering Construction and Public Works Journal.
3. Indian Concrete Journal.
4. Journal of the Indian National Society of Soil Mechanics and Foundation Engineering.
5. Journal of Indian Road Congress.
6. Journal of the National Buildings Organisation.
7. Building Science abstracts.
8. Civil Engineering and Public Works Review.
9. Civil Engineering in Japan.
10. Concrete Journal.
11. Journal of American Concrete Institute.

12. Proceedings of the American Society of Civil Engineers.
13. Proceedings of the Institution of Civil Engineers.
14. Roads and Road construction.
15. Journal of Cement Engineering Practice.
16. Indian Standards Institution Bulletin.
17. Indian Steel Age.
18. Indian Journal of Technology.
19. Journal of Institution of Engineers - India.
20. Journal of Environmental Health.
21. Journal of the Central Board of Irrigation.
22. New Irrigation Era.
23. Journal of the Prestressed Concrete Institute.
24. Journal of Machine Building Industry.
25. International Journal of Heat and Mass Transfer.
26. Welding Journal.

27. Journal of Current Science.
28. Defence Science Journal.
29. Engineering News of India.
30. Indian And Eastern Engineer.
31. Invention Intelligency Journal.
32. Indian Journal of pure and Applied Physics.
33. Journal of the Mathematical and Physical Sciences.
34. Journal of the Scientific and Industrial Research.
35. Journal of Mathematics Student.
36. Magazines Free Issues (Tech.)
37. Science Reporter.
38. Tisco Journal.
39. University News.
40. UNESCO Carrier.
41. IASLIC Bulletin.
42. American Journal of Physics.
43. Engineer.
44. Engineering.
45. Engineering News Record.
46. Journal of Engineering Education.
47. Journal of Nuclear Energy.
48. Journal of Nuclear Engineering.
49. Journal of Nuclear Science and Technology.
50. Popular Mechanic Journal.
51. Journal of Solid State Physics.
52. Journal of the Royal Aeronautical Society.
53. Review of Scientific Instruments.

54. Indian Geo Technical Journal.
55. Journal of Fran Franklin Institute.
56. American Machinist.
57. Journal of Automobile Engineer.
58. Journal of Control Engineering.
59. Journal of Instruments and Control System.
60. International Journal of Machine Tool Design and Research.
61. International Journal of Mechanical Sciences.
62. Journal of Machine Design.
63. Journal of Iron and Steel Institute.
64. Journal of Atomic and Molecular Physics.
65. Physics today.
66. Science Digest.
67. Technical Education and Industrial Training.

10. Hoopes Manual of Applied Mechanics - Cunningham 2
11. Mechanics Applied to Engineering - Goodman 1
12. Solutions of Problems in Applied Mechanics - Bala 3
13. Advanced Mechanics of Materials - Sely 6
14. Engineering Mechanics - Timoshenko 4
15. Applied Mechanics - Poor Man 2
16. Fixed Point Method for Solving Rigid Frames - Applied
to Members of Constant and Variable Moment of Inertia
- Roy 3
17. Mechanics - Brennan 1
18. Mechanics for Engineers - Marly 3
19. Mechanical Properties of Materials and Design - Moring 1
20. Mechanics of Materials - George 2
21. Engineering Materials dealing with ferrous and non
ferrous metals used in Engineering workshops - Holly 1
22. Mechanics for Engineers - Planding 2

TEXT BOOKS IN CIVIL ENGINEERING AVAILABLE AT THE COLLEGE LIBRARY.

Sl. No.	Title of Book.	No. of copies
1. Technique of Design - Wallace		1
2. Introduction to Design - Ashmow		1
3. Conference on Design Methods - Jones		1
4. Product Design and Decision Theory - Starr		1
5. Introduction to Engineering and Engineering Design - Kistler		2
6. Design Engineering - Inventive as Analysis and Decision Making - Dixon		1
7. Introduction to Engineering Design - Woodson		1
8. Design Synthesis - Billinger		1
9. Design data book - P. S. G.		3

Sl. No.	Title of Book.	No. of copies
23.	Applied Mechanics - Morly	3
24.	Engineering Materials - Jackson	2
25.	Applied Mechanics for Beginners - Duncan	3
26.	Practical Building Mechanics - Tate	1
27.	Applied Mechanics - D.A.Low	3
28.	Advanced Mechanics of materials - Murphy	3
29.	Notes on Applied Mechanics - N.S.Krishnaswamy	4
30.	Mechanics of Materials - Jenway	1
31.	Similitude in Engineering - Murphy	1
32.	Introduction to Engineering Materials (University of California)	1
33.	Text book of Engineering Materials - Kulkarni	3
34.	Engineering Mechanics Higien and Stiles -	3
35.	Engineering Mechanics - Timoshenko and Young	3
36.	Text Book of Engineering Materials - Nerd	2
37.	Mechanics of Materials - Fairman and Outshall	2
38.	Text book of materials of Engineering - Moore and Moore	2
39.	Technology of Engineering Materials - Hilton	2
40.	Mechanics for Engineering Students - F.J.Batson	2
41.	Analytical Mechanics for Engineers - Seely and Ensign	2
42.	Elements of Applied Mechanics - Junmarkar	12
43.	Text Book of Elementary Mechanics - Vaidya	3
44.	Experimental Mechanics and Properties of Materials - Muhlberg	2
45.	Selected papers on Engineering Mechanics - Gabrielli	2
46.	Applied Mechanics - Stephens and Ward	2

Sl. No.	Title of Book	No. of copies
47.	Dimensional Analysis and theory of models - Bangnaar	2
48.	Engineering Materials - Khadilkar	2
49.	Science of Engineering Materials - Goldman	1
50.	Applied Mechanics - Girrin	1
51.	Applied Mechanics Made Easy	3
52.	Mechanics Applied to Engineering - Rider	5
53.	Structural Mechanics - Morgan and Williams	2
54.	Engineering Materials Handbook - Mantell	2
55.	Energy Principles in Applied Statics	2
56.	Theory of Thin Shell - Radok and Lowe	3
57.	Creep of Engineering Materials - Finnie and Heller	1

58. Nature and Properties of Engineering Materials
- Jastrzebski 1
59. Engineering Mechanics - Cox and Plumtree 1
60. Shock and Vibration in Linear Systems 2
61. Applied Mechanics for Engineers - Grassie 5
62. Applied Engineering Mechanics - Jensen and Chenoweth 1
63. Engineering Materials and their Mechanical Properties
and Applications - Marin 1
64. Text Book of Engineering Materials - Das and Chawla 3
65. Introduction to the properties of Engineering materials
- Pascoe 2
66. Mechanical Behaviour of Materials at Dented temperatures
- John E. Dora 1
67. Introduction to Engineering Mechanics - Humbleston 2
68. Theory and Problems of Engineering Mechanics, Statics
and Dynamics - Mclean and Nelson 3
69. Vector Mechanics for Engineers, Statics and Dynamics
- Beer and Johnston 7

Sl. No.	Title of Book	No. of copies
70.	Energy Methods in Applied Mechanics - Langhaar	2
71.	Engineering Materials and Processes - Clark /	1
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321.	Introduction to Linear Programming	Corper	1
322.	Dynamic Programming and Markov Processes	Howard	1
323.	Introduction to Programming in the I.B.M.1620 Epcsc		1
324.	Non-Linear and Dynamic Programming	Hatley	1
325.	Sampling Inspection	Freeman	1
326.	Statistical Methods in Quality Control	Cowden	1

