

# ANNUAL REPORT

1959-1960



**INDIAN INSTITUTE OF TECHNOLOGY  
MADRAS**

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The Indian Institute of Technology, Madras, the third of the four All India Higher Technological Institutes set up by the Government of India in implementation of the recommendations of the Sarker Committee, was inaugurated by Prof. Humayun Kabir in the distinguished presence of H. E. the Governor of Madras, the West German Charge D'Affaires, Herr Von Heyden, Mr. C. Subramaniam, Education Minister of the Government of Madras and Dr. A. L. Mudaliar, the Vice-Chancellor of the Madras University and Chairman of the Board of Governors of the Institute.

The management of the affairs of the Institute was placed by the Government of India in a Board of Governors comprising:

## *Chairman*

1. Dr. A. Lakshmanaswamy Mudaliar,  
Vice-Chancellor, Madras University,  
"Kensington",  
Kilpauk,  
Madras-10.

## *Members*

2. Dr. C. D. Deshmukh,  
Chairman, University Grants Commission,  
Old Mill Road,  
New Delhi.
3. Prof. M. S. Thacker,  
Director-General,  
Council of Scientific & Industrial Research,  
Old Mill Road,  
New Delhi.
4. Shri G. K. Chandiramani,  
Joint Educational Adviser,  
Ministry of Scientific Research & Cultural Affairs,  
Government of India,  
New Delhi.
5. Dr. A. Nagaraja Rao,  
Chairman, Heavy Engineering Corporation,  
Ranchi, Bihar.

6. Shri A. V. Venkateswaran,  
Financial Adviser to the Ministry of  
Scientific Research & Cultural Affairs,  
Ministry of Finance,  
(Department of Expenditure),  
Government of India,  
New Delhi.
7. Shri P. M. Reddy,  
General Manager,  
Hindusthan Aircraft (Private) Ltd.,  
Bangalore.
8. Shri C. S. Tyabji, (Upto 18-9-1959)  
Managing Director,  
Usman Shahi Mills,  
159, Gun Foundry Road,  
Hyderabad (Deccan).
9. Shri Nawab Zain Yar Jung Bahadur, (from 18-9-59),  
Member of the Legislative Council,  
Andhra Pradesh,  
Barkatpura,  
Hyderabad.
10. Shri L. S. Chandrakant, (upto August 1959),  
Special Officer,  
Indian Institute of Technology,  
Madras.
11. Prof. B. Sengupto, (from August 1959)  
Director,  
Indian Institute of Technology,  
Madras.

*Secretary*

Shri R. Natarajan, I. A. S.,  
Registrar,  
Indian Institute of Technology,  
Madras,  
183, Royapettah High Road,  
Madras-14.

The Board of Governors met four times during the period under review.

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## ACADEMIC COUNCIL

*Chairman*

1. Prof. B. Sengupto,  
Director

*Members*

2. Prof. C. G. Swaminathan,  
Department of Civil Engineering
3. Prof. R. G. Narayanamurthy,  
Department of Mechanical Engineering
4. Dr. D. Venkateswarlu,  
Department of Chemical Engineering
5. Dr. C. Rama Sastry,  
Department of Physics
6. Dr. S. K. Srinivasan,  
Department of Mathematics.
7. Dr. W. Hahn,  
Department of Mathematics
8. Dr. W. Koch,  
Department of Physics
9. Dr. D. Koettgen,  
Department of Mechanical Engineering
10. Dr. Scheer,  
Department of Mechanical Engineering
11. Mr. J. M. Lechner,  
Department of Mechanical Engineering
12. Prof. A. L. Krishnan,  
Department of Humanities

*Member-Secretary*

Shri R. Natarajan, I. A. S.,  
Registrar

The Academic Council met four times during the period under report.

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## A D M I S S I O N S

Sl. No.	States	No. of candi- dates applied for admission.	No. of candi- dates called for interview.	No. of candi- dates who attended interview.	No. of candi- dates sele cted for admission.	SC./S.T./B.C. included in the total admitted.	Remarks
1.	Assam	25	12	12	3	1	1
2.	Andhra	294	53	52	13	—	4
3.	Bihar	20	9	3	1	—	1
4.	Bombay	125	37	36	16	—	2
5.	Delhi	115	29	29	11	—	1
6.	Kerala	149	50	50	8	—	1
7.	Madya Pradesh	10	8	8	4	—	1
8.	Mysore	94	40	40	8	—	2
9.	Madras	883	109	108	24	2	2
10.	Orissa	12	9	9	3	—	1
11.	Punjab	63	38	38	7	—	—
12.	Rajasthan	24	14	14	3	1	—
13.	Uttar Pradesh	127	34	27	10	—	—
14.	West Bengal	47	37	37	7	2	—
15.	Himachal Pradesh	—	—	—	—	—	—
16.	Jammu and Kashmir	7	5	5	2	—	—

S.C. S.T. B.C.

### ADMISSIONS

Admission to the First Year B Tech. was made directly on the basis of the results of the Intermediate, Pre-University, Higher Secondary/Senior Cambridge examinations. The interviews for admission were held from the 9th to the 13th July, 1959.

A total of 1,995 applications for admission were received. Interview cards were sent to 484 candidates, of whom 468 attended the interview and 120 were given admission.

### ACADEMIC SESSION

The Academic Session for the year 1959-60 commenced on the 22nd July, 1959 and ended on the 7th May, 1960. The Institute classes and Workshop Practice were conducted in the A. C. College of Technology, the Highways Workshops, by courtesy of the University of Madras and the Government of Madras respectively.

### EXAMINATION RESULTS

Out of a total number of 120 students admitted to the I B. Tech. at the beginning of the Academic Session, 119 took the annual examination. Of this, 107 were promoted, 6 of them getting I class and 101 getting III class. Sri S. S. Randawa secured the I rank.

The remaining 12 students were detained, out of which 1 discontinued his studies.

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### INSTITUTE SCHOLARSHIPS

		Value	Total Amount
Merit	8	Rs. 900 per annum	Rs. 7,200
Merti-cum-Means	21	Rs. 900 per annum	Rs. 18,900

## EXTERNAL SCHOLARSHIPS

Sl. No.	Name of the Sanctioning Authority	Nature of Scholarships	No. of Students	Value per annum	Total Amount
1.	Government of India, Ministry of Education.	Merit Scholarship	6	Rs. 1,200	Rs. 7,200
2.	Director of Harijan Welfare, Madras.	G. O. I. Scholarship for S.Cs/S.Ts/O.B.Cs.	3	892	2,676
3.	Director of Social Welfare, Rajasthan	do	1	742	742
4.	Director of Education, Himachal Pradesh.	do	1	742	742
5.	Secretary, State' Scholarship Board for Backward Classes, Assam.	Scholarship for Backward Classes.	1	892	892
6.	Director of Public Instruction, Assam.	Engineering Scholarship	2	830	1,660
7.	Director of Social Welfare, Andhra Pradesh.	G. O. I. Scholarship for S. Cs/S.Ts/O.B.Cs.	2	1,117	2,234
8.	do	do	1	1,192	1,192
9.	Director of Tribal Welfare, Calcutta.	do	1	1,042	1,042
10.	do	do	1	1,117	1,117
11.	Director of Harijan Welfare, Kerala.	do	2	1,042	2,084
12.	Secretary, Tribal and Rural Welfare, Orissa.	Post-Matriculation Scholarship for S. Cs/S.Ts/O.B.Cs.	1	732	732
13.	Director of Social Welfare, Poona.	G. O. I. Scholarship for Other Backward Classes.	3	967	2,901
14.	do	do	1	1,042	1,042
15.	Director of Harijan Welfare, Uttar Pradesh. Lucknow.	do	1	1,082	1,082
			27		



INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 1959-60

EXPENDITURE

INCOME

PAY AND ALLOWANCES:

	Rs.
<i>Pay of Officers:</i>	
Administrative and Academic	21,933.31
Academic	54,703.90
Administrative	13,666.04
<i>Pay of Establishment:</i>	
Technical	42,807.42
Other Supporting staff	55,480.03
Allowances (D.A., C.C.A. and H.R.A.)	48,279.56

OTHER ALLOWANCES

Travelling Allowance

3,260.03

OTHER CHARGES & MISCELLANEOUS EXPENSES:

*Departmental Expenses: Education:*

General Workshop	21,554.86
Mathematics	107.49
Physics	460.65
Chemistry	1,073.86
Chemical Engineering	14,994.84
Hostels	7,268.27
Engineering Drawing	1,663.15

47,123.12

BY GENERAL INCOME

	Rs.	Rs.
a. Tuition Fees	36,800.00	
b. Seat Rent in Hostel	12,500.00	
c. Admission Fees	1,310.00	
d. Gymkhana & Medical Fees	2,662.00	
e. Application Fees	26,504.00	
	78,876.00	
Fees for registration of application for appointment to Teaching staff	3,721.58	
For selection for training in West Germany	825.00	

4,546.58

MISCELLANEOUS RECEIPTS

Sale of prospectus	535.75
Library overdue collections	76.10
Sale of tender forms	185.00
Sale of trees and bushes	259.40
Sale of usufructs of trees	350.00
Recovery of loss of apparatus	7.55
Sunday Receipts	2.94

1,416.74

contd.....

EXPENDITURE

Rs.

OTHER EDUCATIONAL EXPENSES

Scholarships	17,400.00
<b>LIBRARY</b>	
Journals (of General Interest)	679.07
Library Operating cost	1,820.32
Athletic & Gymkhana	4,082.43
Lodging allowances to German Experts	36,487.01
Delegates to Science Congress and Seminars.	1,482.90
	<u>61,951.73</u>

GENERAL EXPENSES : CONTINGENCIES

Postage	2,005.17
Entertainment	647.20
Telephones	14,017.62
Stationery	7,371.80
Printing	1,487.67
Advertisement	12,799.70
Sundry Expenses (including inaugural celebrations)	8,404.80
	<u>46,733.96</u>

OTHER EXPENDITURE

Petrol oil etc.	640.09
Motor Vehicles (taxes etc.)	215.82
Transportation charges	598.31
Duty, Insurance & Road taxes	276.01
Railway freight	1,151.52
Medical Expenses	74.06
	<u>2,955.81</u>

INCOME

Rs.

GRANTS FROM THE GOVERNMENT OF INDIA

During 1958—59	2,00,000.00
<i>During 1959—60 :</i>	
Recurring	7,10,000.00
Non-Recurring	13,10,000.00
	<u>20,50,000.00</u>
	<u>22,50,000.00</u>

*contd.....*

## EXPENDITURE

## INCOME

	Rs.	Rs.	Rs.
<b>TRAVELLING ALLOWANCE</b>			
T. A. to members of Board of Governors	1,555.50		
Planning Committee	2,944.00		
Committee for selection to teaching staff	4,874.60		
Courses Committee	3,773.60		
Committee for selection of candidates for B. Tech.	522.79		
Candidates called for interview	8,103.85		
		<b>21,774.34</b>	
<b>C.P.F. &amp; L.S. &amp; PENSION CONTRIBUTION</b> (On account of personnel on foreign service)		5,572.64	
Works and maintenance		6,163.86	
Rent of buildings		20,766.07	
			57,232.72
Audit charges			765.00
Excess of income over expenditure			18,80,899.50
		<b>TOTAL Rs.</b>	<b>23,34,839.32</b>
		<b>TOTAL Rs.</b>	<b>23,34,839.32</b>

NOTE — The grant of Rs. 2 lakhs for 1958—59 received on 30-3-1959 was utilised during 1959—60. Hence it is taken as Income during 1959—60.

## LIST OF DISTINGUISHED VISITORS TO THE INSTITUTE

1. Mr. Kickbush of West German Consulate ... (29-7-59)
2. Dr. Kraus ... (2-8-59)
3. Hon. Mr. C. Subramaniam,  
Finance Minister,  
Government of Madras. ... (15-8-59)
4. Dr. Siomer Mr. Mattick, Dr. Schsefer &  
Dr. Daalgruen of the West German  
Parliamentary delegation ... (25-9-59)
5. Shri C. Rajagopalachari ... (2-10-59)
6. Dr. Namaknov,  
UNESCO Professor ... (4-10-59)
7. Mr. Westrick,  
State Secretary,  
Ministry of Economic Affairs,  
Bonn. ... (9-11-59)
8. Prof. N. I. Shirokov,  
Prof. M. A. Maurakh,  
(UNESCO Experts) ... (29-11-59)
9. Dr. C. P. Ramaswamy Iyer ... (5-12-59)
10. Fr. Plattner ... (9-12-59)
11. Prof. Meschryakov,  
UNESCO Expert ... (12-12-59)
12. Dr. Raufner,  
Deputy Whip,  
West German Parliament, Bonn. ... (14-12-59)
13. Prof. Nichleba of Czechoslovakia ... (16-1-60)
14. Dr. H. E. Hoëscher,  
Visiting UNESCO Professor ... (25-2-60)
15. Mr. Koenig,  
German Consul ... (25-4-60)
16. Shri K. Kamaraj,  
Chief Minister of Madras. ... (25-4-60)

## LIBRARY

*Number of books added :* 5,827

*Number of Journals arranged Department-wise :*

S. No.	Department	Subscription	Gift	Total
1.	Humanities	26	2	28
2.	Physics	66	-	66
3.	Mathematics	27	-	27
4.	Chemistry	25	1	26
5.	Applied Mechanics	—	-	—
6.	Civil Engineering	—	-	—
7.	Mechanical Engineering	23	-	23
8.	Electrical Engineering	11	-	11
9.	Chemical Engineering and Chemical Technology	22	—	22
10.	Metallurgy	—	-	—
Total		200	3	203

*Total Number of Journals Received :* 204

*Number of periodicals bound and books*

*repaired for damages :* Nil

*Names of the organisations which have made Gifts to the Library :*

1. Central Public Health Engineering Research Institute, Nagpur.
2. India Book House, Madras.
3. Indian Institute of Science, Bangalore.
4. Indian Institute of Technology, Bombay.
5. Siemens Engineering and Manufacturing Co., Bombay.
6. The Central Research Electric Power Industry, Tokyo.
7. The College Tamil Committee, Government of Madras.
8. Committee on Plan Projects, Delhi.
9. The Central Water and Power Research Station, Poona.
10. The UNESCO Technical Assistance Mission, Delhi.
11. Consul - General, German Federal Republic, Delhi.
12. The River Research Institute, West Bengal.
13. The Tata Iron & Steel Co. Ltd., Calcutta.
14. The Central Water and Power Commission, New Delhi.
15. The Ministry of Scientific Research and Cultural Affairs, Government of India, New Delhi.
16. M/s. Dechema, Frankfurt, Germany.
17. The British Information Services, Madras.
18. The Bureau of Mines, Pittsburg, Pa. 13.
19. The Institution of Chemical Engineers, London.
20. The Brunel College of Technology, Acton, England.
21. The Battelle Memorial Institute, U. S. A.
22. The International General Electric Company, U. S. A.
23. The Bell Telephone Laboratories, New York.
24. The Indian National Commission for Co-operation with UNESCO, New Delhi.

*Library Co-operation: Names of Libraries.*

1. The United States Information Service, Madras.
2. The British Council Library, Madras,
3. The Madras University Library, Madras.
4. The Central Road Research Institute Library, Delhi.
5. Indian Institute of Technology, Kharagpur.

*Expenditure :*

	Rs. np.
Books	92, 232. 27
Journals	12, 309. 29
(including back volumes)	

## HOSTELS

The vegetarian and non-vegetarian sections of the Institute Hostels started functioning in the Women's Hostel in the Teachers' Training College campus at Saidapet and the Pachaiappa's Trainees' Hostel kindly placed at the disposal of the Institute by the Government of Madras and the Pachaiappa's Trust respectively. Dr. Venkateswarlu was appointed the first Warden and M/s P. S. Srinivasan and D. S. Subramaniam the Assistant Wardens of the Saidapet and Guindy Hostels respectively. The following is a brief report on the activities of the Hostels for the year.

July, 1959	...	Inauguration of Saidapet and Guindy Hostels by Shri L. S. Chandrakant, Special Officer. Speech on "Technical Education in West Germany" by Mr. Kickbush of West German Consulate.
August, 1959	...	Lecture by Dr. Kraus, Special Commissioner for the development of Indian Institute of Technology, Madras. "Independence Day Celebrations" Address by Shri K. Balasubramania Iyer, M. L. C. Farewell to Shri L. S. Chandrakant, Special Officer and Welcome to Prof. B. Sengupto, Director.
September, 1959	...	'Vinayak Chathurthi Puja Celebrations' in the morning. Speech on "Genius of Tagore" by Shri K. Chandrasekharan. Debate in English on "Man Created God"

- Reception to West German Parliamentary Delegation consisting of Dr. Siemer, Mr. Mattick, Dr. Schsefer and Dr. Daalgruen.
- October, 1959 ... Address by Dr. Namaknov, UNESCO Professor on "Technical Education in the U. S. S. R."  
 "Mahatma Gandhi's Birthday"-Address by Shri C. Rajagopalachari.  
 "Saraswathi Pooja Celebration"  
 Address on "Democracy" by Mr. C. Subramaniam  
 "Deepavali Day" celebration - Illumination of Hostels.
- November, 1959 ... Debate on "Hindi Should be national language of India."
- December, 1959 ... Quiz Programme - By Quiz Master Prof. N. Vaideeswaran  
 Address by Dr. C. P. Ramaswamy Ayyar.  
 Terminal Tea: Chief Guest - Prof. B. Sengupto.
- January, 1960 ... Address by Prof. V. V. L. Rao  
 "Republic Day" Celebrations, Annual Debate on the "Present generation is politically and socially more backward and more foolish than the last".
- February, 1960 ... Annual Quiz: Quiz Master Rev. Fr. L. D. Murphy.  
 Address by Dr. H. E. Hoelscher, Visiting UNESCO Professor.
- March, 1960 ... Annual recitation competition

#### GYMKHANA ACTIVITY FOR THE YEAR

In view of the fact that the Institute Campus was being cleared there were no adequate playground facilities available for the students. However, facilities were provided to the students in the following games: Volley-ball, Hockey, Foot ball, Tennis.

The Annual Sports Day was held in the Teachers Training College grounds.

The students participated in the following events:

100 Metres Race	400 Metres Race	High Jump	Long Jump
Javelin Throw	Shot Put	Cricket Ball Throw	Slow Cycling
4 x 100 Metres Relay		Tag-of-war	

## STAFF APPOINTMENTS

Sl. No.	Name	Designation
1.	2.	3.
<i>ACADEMIC :</i>		
1	Prof. B. Sengupto	Director
2	Shri R. Natarajan, I. A. S.	Registrar
3	Prof. C. G. Swaminathan	Professor of Civil Engineering
4	Prof. R. G. Narayanamurthi	Professor of Mechanical Engineering
5	Dr. D. Venkateswarlu	Assistant Professor of Chemical Engg.
6	Dr. C. Ramasastry	Assistant Professor of Physics
7	Dr. P. K. Chaudhri	Assistant Professor of Civil Engg.
8	Shri K. S. Sankaran	do
9	Dr. S. K. Srinivasan	Lecturer in Mathematics
10	Dr. Sisir Chandra Das	do
11	Dr. V. Srinivasan	Lecturer in Chemistry
12	Shri S. Padmanabhan	Lecturer in Engineering Drawing
13	Shri P. S. Srinivasan	do
14	Dr. B. V. Ramanamurthi	Lecturer in Physics
15	Dr. V. Sivaramakrishnan	do
16	Shri P. S. Srinivasan	Assistant Librarian
<i>Technical :</i>		
17	Shri B. Radhakrishnan	Foreman (Fitting Shop)
18	Shri T. M. Ramaswamy	do (Machine Shop)
19	„ M. I. Sheriff	do (Carpentry)
20	„ J. A. Fraser	do (Welding)
21	„ B. N. Srinivasamurthy	Senior Technical Assistant
22	„ D. S. Subramanyam	do
23	„ S. Ramagopala Sarma	do
24	„ C. Rama Rao	do
25	„ B. S. V. Gopalam	do
26	„ M. D. Khadikar	do
27	Dr. (Kumari) Padmavalli	do



(1)	(2)	(3)
28	Shri K. Ravi Varma	... Senior Technical Assis- tant
29	Srimathi Kamala Raman	... Junior Technical Assis- tant
30	Shri V. K. Vedapuri	... do
31	„ S. R. Ekambaram	... Mechanic 'A'
32	„ M. Rangaswamy	... do
33	„ M. Govindaswamy	... Mechanic 'B'
34	„ S. A. Nadesam	... do
35	„ T. Palani	... do
36	„ K. E. Balakrishnan	... do
37	„ B. Vajuhuddin	... Mechanic 'C'
38	„ M. Panneerselvam	... do
39	„ R. Parthasarthy	... do
40	„ R. V. Somayajulu	... Draughtsman
41	„ N. K. Srinivasan	... Laboratory Attendant
42	„ M. Narayanan Nair	... do
43	„ S. R. Kannan	... do
44	„ P. Chitti Babu	... do
45	„ R. Durai Susai	... do
46	„ K. Gangadharan	... do
47	„ R. Subramaniam	... do

*Other Supporting Staff :*

48	Shri Mohammed Ghouse	... Superintendent (Admn.)
49	„ Heera Singh	... do (Acad.)
50	„ G. Sundaram	... Auditor
51	„ A. V. K. Nambiar	... Accountant
52	„ K. A. Viswanathan	... Divisional Accountant
53	„ S. V. Sarma	... Chief Store-keeper
54	„ P. K. Balaji Rao	... Assistant
55	„ T. Varadarajan	... Stenographer
56	„ R. Mahendranath Dubay	... do
57	„ E. R. Narasimhan	... Steno-typist
58	Kumari R. G. Lalitha Devi	... Steno-typist
59	Shri S. A. Subramanian	... Cashier
60	„ V. K. Vaidyanathan	... Upper Division Clerk
61	„ K. S. Viswanathan	... do
62	„ A. V. Rajagopalan	... do
63	„ S. Seshadri	... do
64	„ C. Narayanan Kutty	... do
65	„ N. Ranganathan	... do

(1)	(2)	(3)
66	Shri B. Nagaraja Kao	Upper Division Clerk
67	„ O. A. Govindarajan	do
68	„ V. Subramaniam	do
69	Kumai G. Saroja	do
70	Shri S. Ramakrishnan	do
71	„ N. Swaminathan	Lower Division Clerk
72	„ D. Padmaraj	do
73	„ J. S. Varadhachari	do
74	„ T. Ramachandran	do
75	„ E. V. Prabhakaran	do
76	„ M. Adaikalaswamy	do
77	Kmari G. Saroja	do
78	„ S. Mangalam	do
79	„ K. S. Savithri	do
80	Shri M. Sitaraman	Store-keeper
81	„ A. Srinivasan	do
82	„ R. V. Narayanan	do
83	„ C. J. Pachiappan	do
84	„ C. K. Subramaniam	do
85	„ V. R. Thiagarajan	do
86	„ M. M. Muthu	Driver
87	„ P. Natesan	Driver
88	„ D. S. Srinivasan	Gestetner Operator
89	„ S. P. George Muller	Library Attendant
90	„ A. K. Badrinarayanan	Daftry
91	Shri D. Gopalakrishnan	Peon
92	„ P. L. Dasarathan	do
93	„ M. R. Ramdasan	do
94	„ N. Nicholas	do
95	„ M. D. Balaji	do
96	„ M. S. Muthuraman	do
97	„ Abdul Hakim	do
98	„ S. Mahadevan	do
99	„ A. Arumugham	do
100	„ Jai Bahadur	do
101	„ V. Achuthan Nair	do
102	„ Bairath	Chowkidar
103	„ S. A. Razack	do
104	„ D. Kandaswamy	do
105	„ Kal Bahadur	do
106	„ T. P. Thangavelu	do
107	„ P. Kanniappan	do
108	„ R. Devaraj	do

(1)	(2)	(3)
109	Shri Khasim	Chowkidar
110	„ Selvaraj	do
111	„ P. Anthony	do
112	„ K. Shivaji	do
113	„ Kuppan	Sweeper
114	„ P. Jayaraman	do
115	„ Kondiah	do
116	„ Perumal Naidu	do
117	„ Arullappan	do
118	„ Shaik Mohammed	do

## Works :

119	Shri M. S. Srouty	Superintending Engineer
220	„ S. Balakrishnan	Junior Engineer
121	„ C. V. Giri	do
122	„ P. Venkataraman	do
123	„ J. P. Wilfred	do
124	„ P. R. Seshadri	Draughtsman
125	„ T. R. Srinivasan	do
126	„ S. Manickam	Tracer
127	„ N. Chandrasekharan	do
128	„ C. P. Koshy	Maistry
129	„ V. Raman Unny	do
130	„ S. Manickam	do
131	„ S. P. Warriar	do
132	„ O. Ranganayakulu	do
133	„ N. Chandrasekharan	do
134	„ T. R. Krishnamurthy	do
135	„ N. S. Balakrishnan	do
136	„ S. Varadarajan	do
137	„ T. A. Selvaraj	do
38	„ D. Stephen Paul	do

## RESIGNATION/TERMINATION/RELEASE

Sl. No.	Name.	Designation.
1	Shri B. N. Srinivamurthy ...	Senior Technical Assistant
2	„ B. Vajuhuddin ...	Mechanic 'C'
3	Shri R. Durai Susai ...	Laboratory Attendant
4	„ N. Ranganathan ...	Upper Division Clerk
5	„ T. Ramachandran ...	Lower Division Clerk
6	„ Kumari R. G. Lalitha Devi ...	do
7	„ Kumari G. Saroja ...	do
8	Shri Shaik Mohammed ...	Sweeper
9	Shri P. Natesan ...	do
10	Shri P. Venkataraman ...	Junior Engineer
11	„ N. Chandrasekharan ...	Maistry
12	„ S. Manickam ...	Maistry

PLACEMENT FOR TRAINING IN WEST GERMANY UNDER THE INDO—GERMAN AGREEMENT

Sl. No.	Subject	Name of trainee	Country where the training course is under taken	Date of deputation from India	Expected date of arrival in India
1.	Metallurgy	Shri Th. Ramachandran	West Germany	April 1959	May 1961
2.	Mechanical Handling	" Saradindu Sur	do	April 1959	April 1961
3.	do	" M. A. Parameswaran	do	do	do
4.	Mechanical Metallurgy	" S. S. Das Gupta	do	November 1959	September 1961
5.	Hydraulic Machinery	" S. R. Mazumdar	do	April 1959	December 1961
6.	Metallurgy	" R. Vasudevan	do	December 1959	April 1962
7.	Metallurgy	" T. V. Herwadker	do	do	do
8.	Chemical Engg.	" Y. Balagangadhara Varma	do	do	do
9.	Chemical Engg.	" M. Ramanujam	do	do	do
10.	Electrical Engg.	" P. N. Bapat	do	do	do
11.	Electrical Engg.	" C. Satyanarayana Raju	do	do	do
12.	Electronics	" G. N. Garud	do	do	do

## ADVISORY COMMITTEES

## CIVIL ENGINEERING

1. Prof. J. A. Tarapurwala,  
Superintending Surveyor of  
Works, Life Insurance  
Corporation, Bombay.
2. Prof. S. Rajaraman,  
Principal,  
College of Engineering,  
Trichur.

## CHEMISTRY

1. Rev. Fr. Lourdu Yedanapally,  
Head of the Department of  
Chemistry, Loyola College,  
Madras.
2. Dr. T. R. Govindachari,  
Chief Professor of Chemistry,  
Presidency College,  
Madras.

## INORGANIC CHEMISTRY

Prof. T. Mariappan,  
Department of Chemistry,  
Presidency College,  
Madras.

## HUMANITIES

1. Dr. R. Balakrishna,  
Department of Economics,  
University of Madras,  
Madras
2. Shri G. V. Krishna Rao,  
Head of Department of  
Business Management,  
University of Madras,  
Madras.
3. Rev. Fr. L. Murphy,  
Loyola College, Madras.
4. Prof. R. Bhaskaran,  
Department of Politics,  
University of Madras,  
Madras.

## REPORTS FROM THE TEACHING DEPARTMENTS

### Department of Mechanical Engineering :

#### (a) Staff Structure :

Lecturers : Two  
 German Staff  
 Members : Three

#### (b) Teaching : The following subjects were taught to the first year students :

- (i) Engineering Drawing & Descriptive Geometry;
- (ii) Fitting and Carpentry.

#### (c) Educational Tours : Nil

#### (d) Seminars/Colloquia Special lectures : Nil

#### (e) Major equipment Procured : Nil

### Department of Chemical Engineering :

#### (a) Staff Structure :

Assistant Professor : 1  
 Lecturer : 1

#### (b) Teaching : "Inorganic Chemistry" and "Thermo-dynamics" were taught to the first year students.

#### (c) Laboratories/Workshop :

- (a) The laboratories of the A. C. College of Technology, University of Madras were utilised for practical classes. But the apparatus and chemicals required were purchased by the Department.
- (b) 18 comprehensive lists of equipment, furniture, teaching aids, glass-ware and other items to be procured from Germany under Indo-German Agreement and to be purchased in India for the Department of Chemical Engineering in its final set-up were prepared. These lists were sent to the Experts in Germany for approval.

#### (d) Educational tours : Nil.

#### (e) Seminars/Colloquia and Special lectures : Nil.

#### (f) Major equipment procured : A few items for class-work such as Viscometer, Flash and Fire Point apparatus, Mechanical Sieve Shaker were purchased.

### Department of Physics :

#### (a) Staff Structure :

Assistant Professor - one  
 Lecturer - two  
 German Staff Member - one

- (b) *Teaching*: Instruction was confined to the teaching of Physics to the first year students. A special feature is the demonstration of experiments.
- (c) *Laboratories*: Only for under-graduate work.
- (d) *Educational tours*: Nil.
- (e) *Seminars*: Nil.
- (f) *Major equipment procured*:
- (i) Sub-standards for voltage and current.
  - (ii) Polaroid strain viewer.

*Department of Chemistry:*

- (a) *Staff Structure*:
- |          |     |   |
|----------|-----|---|
| Lecturer | ... | 1 |
|----------|-----|---|
- (b) *Teaching*:  
Instruction was confined to the teaching of Physical and Organic Chemistry to first year students and tutorial classes for first year students.
- (c) *Laboratories*:  
The laboratories for conducting first year practical classes were provided by the A.C. College of Technology. The chemicals and apparatus were purchased by the Department. Practical classes in Elementary Chemistry were conducted by the Department.
- (d) *Educational tours*: Nil.
- (e) *Seminars/Colloquia/Special Lectures*: Nil.
- (f) *Major equipment procured*:  
Equipment like ovens, balances, shaking machines, etc., were obtained for conducting first year classes. One Gas Plant was set up in the A. C. College for supply of gas to the first year laboratory.  
A comprehensive list of equipment worth Rs. 8,50,000 was prepared, for procurement under Indo-German Aid or by importation.

*Department of Mathematics:*

- (a) *Staff Structure*:
- |                     |    |      |
|---------------------|----|------|
| Lectures            | -- | 3    |
| German Staff Member | -- | one. |
- (b) *Teaching*:  
The Department undertook teaching in Mathematics for the first year of the B. Tech. course leading to the various disciplines in engineering.
- (c) *Laboratories*: Nil.
- (d) *Educational tours*: Nil.



*(e) Seminars :*

Seminars were arranged on various topics of pure and applied mathematics at regular intervals. The Department has carried research work in the following branches :—

- (1) Stability theory of differential equations ;
- (2) Probability and Stochastic processes ;
- (3) Elasticity ;
- (4) Theory of Cosmic Rays and
- (5) Theory of fundamental particles and their interactions.

Uptil now, over 25 papers have been published in standard journals in India and abroad. The list of papers published is given below :

*Stability Theory of differential equations and difference  
differential equations :*

- |             |  |   |
|-------------|--|---|
| (1) W. Hahn | - On the applications of matrix methods in the Theory of geometric difference equations. | Proceedings of the Academy of Sciences, 51 (1960) 137 |
|-------------|--|---|

*Elasticity :*

- |               |   |   |
|---------------|---|---|
| (2) S. C. Das | - Bars reinforced by hyper - boloidal type notches under tension. | Indian Science Congress 1960.                                 |
| (3) S. C. Das | - Bars reinforced by hyper - boloidal type notches under tension. | Proceedings of the Fifth Congress of Applied Mechanics, 1959. |

*Theory of Fundamental Particles & their inter-actions*

- |                      |   |  |
|----------------------|---|--|
| (4) S. K. Srinivasan | - Photo - production of plan pion pairs by polarised nucleons.                      | Proceedings of the Indian Academy of Sciences 50 (1959) 392. |
| (5) S. K. Srinivasan | - A note on the interaction between nuclear and anti-nuclear (with A. Ramakrishnan) | Proceedings of the Indian Academy of Sciences 50 (1959) 91.  |
| (6) S. K. Srinivasan | - A note on dispersion relations (with A. Ramakrishnan & R. Vasudevan)              | Nuclear Physics 15 (1966) 516                                |

*Miscellaneous*

- |             |                           |  |
|-------------|---------------------------|--|
| (7) W. Hahn | - On a special pado table | Indian Journal of Mathematics 2 (1960) 67. |
|-------------|---------------------------|--|