

E & P. H (1947) Department.

MS. SERIES.

G.O. No.

11633 Lu.

Dated

7-6-47.

(9)

[Despatch Abstract.]

College - Arthur Hope College of Technology, Coimbatore -
Suggestion of Principal for revision of courses, number of seats
etc. - Papers recorded.

Back Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Further Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

From
Prof. A. Viswanath, M.Sc(Lond)
A.C.G.I.D.I.C, M.I.E.,
Principal, Arthur Hope College
of Technology, Coimbatore,
Peelamedu P.O.

To
The DIRECTOR of PUBLIC
INSTRUCTION
MADRAS.

No: ROC:73-B/47

Dated 13--April--47.

Sub:- Revision of courses of studies- No. of seats etc-

Sir,

I have the honour to bring to your notice certain basic aspects of the Arthur Hope College of Technology for reconsideration and revision in order to conform to the decisions already taken by the Madras Government and to bring this College into line with the similar Colleges of the Province and the rest of India. As we are building up a New College that will have to serve many future generations it is only proper that the Basic aspects of its planning and constructions receive the best Technical guidance.

1. Introduction of specialized courses without organizing the basic Engineering courses.

In Government Memorandum 59178-A/46/3 Edn., Dtd. 6-12-46, the Madras Government have accepted the recommendations of the Expert Committee that the allocation of courses of specialized study and the fixation of the number of students in the different branches of Engineering should be done after a survey and assessment of the requirements both of the Central and this Provincial Government. On the basis of this consideration and on account of the very inadequate accommodation and equipment that can be procured, at present, it was decided that the New College starting in temporary buildings with make-shift arrangement should confine to the basic Engineering courses only and that the opening of specialized courses of studies should wait till the permanent buildings and equipment are secured. Accordingly the 3 Basic courses, Civil Engineering, Mechanical Engineering & Electrical Engineering were accepted to be first organized as these provide the Basic nucleus common to all branches of Engineering courses and at the same time they meet the urgent demands of that class of higher Technical personnel that will be immediately needed for the execution of Post-war Development Schemes that are contemplated in the country. A part of the difficulties of the A.H. College is due to having committed to the opening of the specialized courses like Automotive Engineering, Textile Technology etc., without first organizing the Basic courses common to all branches of Engineering. My predecessor Mr. Sadaranjani, has already pointed this matter in his letter dated 20-1-47, camp Guindy. I may also draw attention to the fact that recently a special Committee appointed by the Govt. of Madras for the strengthening of Mechanical Engineering in the Province, has remarked on the step motherly treatments given during the past few years to the Mechanical Engineering Department of the Guindy College. Of all branches of Engineering, the Mechanical Engineering has got to make the greatest contributions to Industrial Development and it is necessary to ensure that the A.H. College of Technology gives greater emphasis and adequately covers the Mechanical Engineers Courses of studies.

II. Fixation of uneconomical numbers for the various courses of studies.

It is observed that in G.O. Mis.1031-Edn dated 11-1-1945, the Government have approved the courses of studies and admission in each as follows:-

Civil Engineering.	..	30.
Textile Technology	..	15
Automotive Engineering	..	15
Electrical Technology	..	15
		<u>Total 75.</u>

3

An examination of the recognized practice in all Technical Institutions will show that about 30 students is the minimum strength of an undergraduate class. The staffing & equipping of Technical Institutions are necessarily costly and a certain minimum staff and equipment has to be provided whether the number is 15 or 30. From consideration of economy, efficient full time use of equipment and adequate teaching load on the staff consistent with high standard of instruction, this number about 30 is the economic minimum strength as accepted universally. The Sircar Committee appointed by the Government of India to formulate details of the Higher Technical All India Institutions have adopted this Number 30 as the minimum strength of an under-graduate class. The expert Committee appointed by the Madras Government have also followed the same so as to keep in conformity with All India Standards Under the circumstances the smaller number of 15 allotted to the Electrical Engineering, Automotive Engineering, Textile Technology etc., would seem un-economical. If the permanent buildings for the College are going to be based on these numbers to be accommodated, it may involve considerable waste and uneconomical use of staff, building and equipment. I recommend therefore that this College should also adopt 30 as the minimum strength of each class when considering formulation of proposals for the permanent buildings of the College.

III. Isolation from Expert advice and direction which the other new Engineering Colleges have been given:-

The Expert Committee appointed by the Madras Government has made considerable head way in working out the basic details which will be applicable to any Engineering Institution of University Standard. These details incorporate the latest Technical knowledge and practices developed by the Association of Principals of Technical Institutions in Great Britain and other sources (In a separate enclosure a bill for £. 5 is enclosed for sanction, being expenditure involved in collecting and transmittting by Air Mail special Reports and Literature on the "Planning of Technical Institution" etc., It is also the aim of the Expert Committee to incorporate measures to enable the Madras New College to maintain standards in closest co-ordination with the All India Poly Technics and other Institutions. The Madras Government is incurring considerable expenditure in securing the Advice of the various specialists in the Expert Committee and it would be a great loss if the Arthur Hope College of Technology alone should be held an isolation without this benefit. I suggest that this College may therefore be brought in line with the other Engineering Colleges by including it within the scope of the Expert Committee.

IV. Lagging behind in pacing the progress of development.

As already stated, although this College has been in existence for the last 2 years, the progress regarding Equipment, buildings and permanent organization is lagging considerably behind time. The remarks of the Madras University on the situation and their threat of withdrawal of recognition does not reflect much credit to the work done in the past. Under the circumstances, I consider that our urgent need is to rectify the above mentioned defects and get some definite start on the permanent buildings, equipment and arrangement as early as possible. This is my object in writing this letter.

V. Rectification of the defective aspects.

The rectification of the above defective aspects will result in the basic development plans of this College being identical with those formulated by the Expert Committee for Vizagapatam Engineering College. Thus:-

(1) The basic courses should be immediately revised so as to include Civil Engineering, Mechanical Engineering & Electrical Engineering etc., may be kept in abeyance until Government action and decision in respect of G.O. No.1031 Edn., Dtd.11-7-45 are known and permanent Buildings and Equipment are available:

(ii) The numbers should be admitted in each of the basic courses should be revised to:-

Civil Engineering	..	..	30.
Mechanical "	..	..	30
Electrical "	..	..	30
Add wastage	..	..	10%
Total			<u>100</u>

In making designs and plans for permanent buildings the provision for accommodation should be as below:-

4 Years basic classes of 100 i.e. $4 \times 100 = 400$

Provision for casual students, 1

Research workers, specialized classes etc., 1 = 100

500

It is requested that orders may be issued accepting these numbers.

VI. Adopting plans & Buildings of Vizag College to this College to expediate progress.

While an alternative design of buildings different from that for the Vizag Engineering College can be adopted it will materially accelerate the construction of buildings, if the same plans are adopted. The Drawing Office of the P.W.D. is now full up with the preparing of designs & drawings for 3 Engineering Colleges, 2 Medical Colleges & large number of other projects. The preparation of designs, plans and Estimates by that office is a real bottle neck of progress at the present time. As a means of overcoming this difficulty, the Medical Department are repeating the plans of the Madura Medical College for the Guntur Medical College also. I suggest that plans prepared for the Vizag Engineering College may similarly be adopted in toto for this College also. This will have the effect of gaining 9 months which would be otherwise taken up by the Drawing office of the P.W.D. etc., I request therefore that the P.W.D. be addressed to adopt the Vizag Engineering College plans for the Arthur Hope College of Technology. I have already had a talk with the Chief Engineer Mr. McIntosh and he has himself stressed the need for doing as above.

Summing up, I request that orders may be obtained approving:-

(i) ~~Revising of the courses of study to the Basic Courses~~
~~Civil Engineering, Mechanical Engineering, Electrical Engineering and E.E.~~

(ii) Revision of the number for each course of study to 30.

(iii) The inclusion of the Arthur Hope College of Technology within the purview of the Expert Committee.

(iv) Adoption of the designs and plans of the Vizag Engineering College for this Arthur Hope College of Technology also.

I request early orders.

[Signature]
Principal

Copy to the Hon'ble
Minister for Education

Memorandum No. 361 to A (47) - 1 Edn 2 6-5-47

Sub A.H. College of Technology, Corinbatore
- suggestion re revising Courses, increasing
the no. of seats etc.

The attention of the DPI
is invited to the letter of the Principal,
A.H. College of Technology, Corinbatore,
No Roc 73-B/47 & 13-4-47 addressed to
him and he is requested to ~~transmit~~^{offer his}
~~that letter to Govt with his remarks~~
on the points raised therein
out a very early date.

To The DPI
Del
9/5

1-5-47

Wf
6/5/47

Memo No. 36170 A/47-1 Edn. dated 6-5-47

Sub: Arthur Hope College of Technology, Coimbatore - Revision of the courses of studies.

Ref: Government Memo No. 36170 A/47-1 Edn., dated 6-5-47.

In his letter Roc. No. 73 B/47 dated 13-4-47, the Principal A.H. College of Technology has made the following suggestions:-

- 1. Revision of the courses of studies by providing the basic degrees in Civil, Mechanical and Electrical Engineering;*
- ii. Fixing the strength of each class at 30;*
- iii. Inclusion of the College within the scope of the Expert Committee; and*
- iv. adoption of the design and plans of the Vizagapatam College.*

These suggestions are examined below:-

- 1. In G.O. No. 1031 Edn., dated 11-7-45, Government have already sanctioned the following courses in the College.*

Civil Engineering.	30 students
Textile Technology.	15 "
Automotive Engineering.	15 "
Electrical Technology.	15 "

Both civil and Electrical Engineering courses were opened in the College in 1945-46. The other two courses are to be opened in 1947-48 but in view of the lack of accommodation and equipment in respect of Textile Technology and Automotive Engineering, I had already recommended that provision may be made only for Civil and Electrical Engineering courses. vide my letter Rc. 183 A/46 dated 1-3-47. Mr. Viswanath, the present Principal has since reported to me that it may not be possible to start the Electrical Engineering course in July 1947 for want of the full equipment and accommodation for the course. But as it is now decided to obtain the Burma Evacuee Camp in the Forest College for the locating the College, it may be possible to provide Electrical Engineering. If this is not found possible I am also considering the question of transferring students not taking Civil Engineering to Guindy. I am not in favour of a revision of the courses of studies as suggested by the Principal. With regard to the provision of mechanical Engineering, I give below extracts from the letter of Mr. Sadarangani, a former Principal of this College.

"Automotive Engineering - I have had the benefit of perusing the course approved by the Board of studies for this subject. I find that this course bears very great resemblance to the course for mechanical Engineering and consider that the course of Automotive Engineering is not provided in a College which already has a course for mechanical Engineering. In the alternative there is no reason why a course of mechanical Engineering should not be provided in the A.H. College where a course of Automotive Engineering has already been sanctioned". The question of opening a separate course in mechanical Engineering may be deferred till permanent buildings are constructed.

A.S. 14

C.F. 32.

Education Department

From (Name) Dr. S.R.U. Savor, M.A., D.Sc., I.E.S., Designation Director of Public Instruction, Station Madras.	Received _____ Registered _____ To The Secretary to Government, Education and Public Health Department, Madras.
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Enclosures: Roc. No. 183 K2/46 dated 23-5-1947. 194 .

Sir,

Sub: Arthur Hope College of Technology, Coimbatore -
Revision of the courses of studies.

Ref: Government Memo No. 36170 A/47-1 Edn., dated 6-5-47.

In his letter Roc. No. 73 B/47 dated 13-4-47, the Principal A.H. College of Technology has made the following suggestions:-

1. Revision of the courses of studies by providing the basic degrees in Civil, Mechanical and Electrical Engineering;
- ii. Fixing the strength of each class at 30;
- iii. Inclusion of the College within the scope of the Expert Committee; and
- iv. adoption of the design and plans of the Vizagapatam College.

These suggestions are examined below:-

1. In G.O. No. 1031 Edn., dated 11-7-45, Government have already sanctioned the following courses in the College.

Civil Engineering.	30 students
Textile Technology.	15 "
Automotive Engineering.	15 "
Electrical Technology.	15 "

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"Automotive Engineering - I have had the benefit of perusing the course approved by the Board of studies for this subject. I find that this course bears very great resemblance to the course for mechanical Engineering and consider that the course of Automotive Engineering is not provided in a College which already has a course for mechanical Engineering. In the alternative there is no reason why a course of mechanical Engineering should not be provided in the A.H. College where a course of Automotive Engineering has already been sanctioned". The question of opening a separate course in mechanical Engineering may be deferred till permanent buildings are constructed.

p.t.o.

ii. This question is shortly to be discussed in a conference which the Hon'ble Minister for Education has proposed to convene on 26-5-47.

iii. I have no objection to including the A.H. College also within the purview of the Expert Committee constituted under G.O.No.1213 Edn., dated 18-6-1946.

iv. The plans and estimates for the construction of permanent buildings have already been prepared by Dr. Rudra; but I have however instructed the Principal to place them before the Expert Committee.

2. This also raises the question of Secretaryship of the Expert Committee. In G.O.No.889 Edn., dated 27-4-46. Mr. Viswanath, Professor of Mechanical Engineering in the College of Engineering Guindy was made the 'Organising Principal' for the two Engineering Colleges at Vizagapatnam and Anantapur, and when the constitution of Expert Committee was sanctioned, the Organising Principal was made the Secretary of this Committee - vide G.O. No.1213 Edn., dated 18-6-46. Mr. Viswanath was subsequently posted as Principal of the Engineering College, Cocanada and the duties connected with the eventual opening of the Engineering College, Anantapur - vide G.O.No.1500 Edn., dated 1-8-46. With reference to these orders the Principal, College of Engineering, Guindy, has been submitting proposals in regard to the Engineering College, Anantapur (now at Guindy). There is therefore no 'Organising Principal' at present. Mr. Viswanath, the present Secretary of the Expert Committee has now been appointed as the Principal, of the Arthur Hope College and Mr. V.H.Sadarangani, posted as Principal of the Engineering College, Cocanada. Legitimately Mr. Sadarangani should be appointed as the Secretary of the Expert Committee. ~~XXX~~ I would recommend Dr. Rudra for the Secretaryship as he has been associated with the proposals for starting all the new Colleges and is in charge of the transfer of the Anantapur College. Moreover, most of the members of the Expert Committee are resident in Madras and it will be possible for him to have consultations with them whenever required which may also accelerate the work of the Committee.

It is also necessary that the Building and Equipment Sub-Committee of the Experts Committee should contain atleast two Professors each of Civil, Mechanical and Electrical Engineering so that the men actually in charge of Laboratories may plan for new Colleges. I have the refore asked Mr. Viswanath that the Expert Committee may be requested to co-opt the following Professors on their Building and Equipment Sub-Committee:-

Dr. J.J.Rudra, Messrs. V.H.Sadarangani, K.S.Krishnaswami Iyengar and Col.S.Paul.

I request that this suggestion may be endorsed by Government.

for Director Public Instruction.

k.h.23-5.

sd
23/5
XXX B. I would however suggest that it will be preferable to have as Secretary an officer whose headquarters is at Madras.

Edn and P.H.Dept

Memo 36170 - A/42-2 Edn d. 26-5-47
Arthur Hope College of Technology
Suggestions of the Principal regarding revision of courses of studies, number of seats etc.

Ref letter from the D.P.S No: 183
K2/46 & 23.5.47.

The following orders are passed on the suggestions made by the Principal, Arthur Hope College of Technology:-

(1) Revision of courses

In the circumstances explained by the D.P.S. in para 1 of his letter cited above the proposal need not be pursued.

(2) Fixing the strength of each class at 30

It was decided at the conference on the HAI's room of 24.5.47, that this might be referred to the Expert Committee. The D.P.S. has separately been asked to take necessary action.

(3) Inclusion of the College within the scope of the Expert Committee

The suggestion is approved.

(4) Adoption of the design and plans of the Eng. College, Vizag. for the A.H. College, Coimbatore

The D.P.S. has reported separately that the plans and estimates for the buildings have already been prepared and that he has instructed the Principal to place the plans and estimates before the Expert Committee. In view of this, the Govt consider that it may be left

to the Expert Committee to decide whether the plans and estimates for the work may be of the pattern of those relating to the Vign. College or whether they may ~~be~~ remain as they ~~are~~ already prepared.

(5) Secretaryship of the Expert Committee

The Expert Committee has sat for some time and Sri Viswanath has been the Secy. of that Committee. There is now a proposal to have ~~a standing~~ ^{a standing} Advisory Board of Technical Education on the formation of which the Expert Committee will cease to exist. The Govt consider that Sri Viswanath may continue as Secy of the Expert Committee till the Standing Advisory Board of Technical Edu. is constituted. If the D.P.S. has any special reasons for recommending the change he may state them.

~~6. To optain of Dr. J. J. Rudra, Mr. V. H. Sadarangani, K. S. Krishnaswami Ayyangar and Sri Paul as members of the Buildings and Equipment Sub-committee of the Expert Committee~~

Buildings and Equipment Sub-committee 31/5/47

The suggestion is approved. The Govt also approve of the suggestion of the D.P.S. for the co-opting of the following persons as members of the Buildings and Equipment Sub-committee of the Expert Committee:-

- Dr. J. J. Rudra
- Sri V. H. Sadarangani
- " K. S. Krishnaswami Ayyangar
- Sri S. Paul.

2/6/47

by 2/6/47



Secretary, Education
Please see herewith a representation from the Principal of the Coimbatore Engineering College. He has raised three matters in it.

- (1) Revision of the courses of studies to the basic courses of Civil Engineering, Mechanical Engineering and Electrical Engineering.
- (2) Enhancing the number for each course of study to 30.
- (3) Inclusion of the Coimbatore of Technology within the purview of the Expert Committee.
- (4) Adopting the plans and buildings of the Vizagapatam Engineering College for this year also.

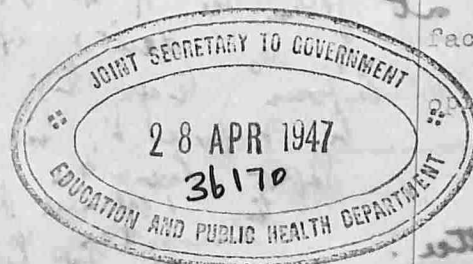
(1) The opinion of the D.P.I. may be called for on the suggestion.

(2) I think this can be approved. In fact, this year, we have admitted 15 more as the allotment to the Anantapur College. The suggestions given by the Principal may be considered and I think it may be accepted.

(3). May be done.

(4). May be considered and reported.

Since the matter of admissions is something that has to be faced immediately, the D.P.I. may be asked to give his final opinion so that we can come to an early conclusion in it.



H. Education.

EDPH(A)

As per the minutes of H.M. (Ed) above. It seems necessary to get the remarks of the DPI on all the points raised. Subject to orders, a draft memo. is submitted.

Issued as Memo. No. 36170 Ate 7-12-47
From the DPI, No. 183 Kz 46 & 235

Mr. Viswanath, Principal, A.H. College of Technology, Coimbatore has raised the following issues in respect of his College

- (1.) Revision of the courses of study

in the College by providing the basic degrees in civil, Mech. and Electrical Engg.

- (2) Fixing the strength of each class at 30
- (3) Inclusion of the College within the scope of the Expert Committee and
- (4) adoption of the design and plans of the Engg. College, Vizag, to the Coimbatore College.

The points raised by the Principal are examined below:-

(1) Revision of courses. In the circumstances reported by the DPI in para 1 of his letter on p 9 CF, the proposal need not be pursued.

(2) Strength. As observed by the DPI, the question may be discussed at the Conference to be held today.

(3) Inclusion of College within the purview of the Expert Committee.

The proposal may be accepted.

(4) Adoption of Vizag College's design and plans.

The DPI has reported that the plans and estimates for the bldgs have already been prepared and that he has instructed the Principal to place the plans and estimates before the Expert Committee. In view of this, it may be left to the Expert Committee to decide whether the plans and estimates for the works may be of the pattern of those relating to the Vizag College or whether they may be as they are already prepared.

Incidentally, the DPI has

raised the following two questions:-

- (1) Secretaryship of the Expert Committee
- (2) Co-opting of Dr J. J. Rudra, Messrs V. H. Sadarangani, K. S. Krishnamani Aiyengar, Col. S. Paul as members of the Bldgs and Equipment Sub-Committee of the Experts Committee

(1) In the circumstances reported by the DPI in para 2 of his letter on p 10 CF, his suggestion to replace Mr. Viswanath by Dr. Rudra as Secy. to the Expert Committee may be accepted.

(2) The DPI has also stated that he has already asked the Secy. of the Expert Committee to place this suggestion before the Committee.

He now only wants that his suggestion may be endorsed by the Court. This may be done

For orders as to circulation to

H.M (Edn).

ES
26/5/49

26/5/49

26/5/49
(Cm.)

The Expert Committee has sat for sometime and

Sri Viswanath has been the Secretary of that Committee.

There is now a proposal to have an Expert Advisory Committee on the formation of which this Expert Committee will dis-

appear. In between these two, I do not think there should be any change and Sri Viswanath may continue for the present.

If the D.P.I. has any special reasons for recommending the change, he may state them.

TSR
29.5.49

A draft memo is subd. After issue these papers may be order 1163
MB
26/5/49

26/5/49

26/5/49

26/5/49

26/5/49

revised the following two questions:
(1) Secretariat of the Export Committee
(2) Composition of D.T.T. Board
Messrs V.H. Sankaranarayanan
Messrs K.S. Sankaranarayanan
Col. S.A.

as members of the Board and to appoint
Sub-Committee of the Export Committee

(1) For the circumstances reported
by the D.T. in para 2 of his letter on 10.11.54
his suggestion to replace Mr. Viswanath
by Dr. Rangan and keep a 7 Export
Committee may be accepted

(2) The D.T. has also stated that
he has already asked the
of the Export Committee to consider
this suggestion before the Committee
He was only meant that his suggestion
may be endorsed by the Govt. This
may be done

For action on the suggestion
H.M. (C.M.)
12/11/54

From 12.11.54

12/11/54
12/11/54