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Educational (1903) Department.

ORDINARY PRINTED.

G.O., No. 663

DATED 30·7·03.

INDEXED

ORIGINAL

[Despatch Abstract.]

College of Agriculture.

Approving the Syllabuses in agricultural Engineering & Surveying & Levelling submitted by No 6-7-03.

BACK PAPERS.

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

FURTHER PAPERS.

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

Government {1903} of Madras.

EDUCATIONAL.

Recd. } 1903. *Enclosures*

Regd. } *Spare copies*

OFFICIAL

G.O., No. 363, 30th July 1903.

N. P.

JULY.

College of Agriculture,

Approving the syllabuses in agricultural engineering and surveying and levelling submitted by the Director of Public Instruction.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following paper:—

From the Hon'ble Mr. G. H. STUART, M.A., Director of Public Instruction, Madras, to the Secretary to Government, Educational department (through the Director of Agriculture), dated 2nd June 1903, Cur. No. 4122.

With reference to paragraph 8 of G.O., No. 429, Educational, dated 24th July 1902, I have the honour to submit, for the approval of Government, the syllabuses in agricultural engineering and surveying and levelling as revised by Mr. Ashpital. The subject of irrigation which previously formed part of the engineering syllabus was transferred by the committee to the agriculture syllabus. It is not known what reasons led the committee to make the change; but I consider that the subject cannot be properly dealt with by the examiners in agriculture, and that it should be retransferred to the agricultural engineering syllabus. The committee, while recommending the inclusion of surveying in the agricultural engineering syllabus, proposed, as will be seen from the syllabus framed by them, to have a separate minimum for surveying and levelling. Practically, therefore, it is treated as a separate subject and the simplicity obtained by joining it to engineering is only apparent, while the advantage of keeping the subjects separate is that they can be disposed of at different stages of the course of instruction. Mr. Ashpital who was consulted approves of the engineering syllabus as now submitted.

2. In the general chemistry syllabus, the portion "C . . quantitative analysis . ." under chemical laboratory work is identical with what is given under agricultural chemistry, and its inclusion in the former is considered both by Mr. Keess and by Dr. Leather to be a clerical error. I request that it may be removed from under general chemistry.

3. In the revised syllabuses the minimum for a pass in certain subjects is proposed to be 50 per cent. I consider that this is rather high and that it should be reduced to 45 per cent. In agricultural chemistry there is not enough distinction between a mere pass and a first class, and in general chemistry the committee has fixed no minimum for a first class. I therefore recommend that the minima shown below should be adopted:—

	Maximum.	Minimum for passing.	
		1st class.	2nd class.
Agricultural Chemistry—			
Written examination	50	..	..
Oral ,, ...	20	..	..
Practical ,, ...	30	20	15
	100	65	45
General Chemistry—			
Written examination	50	..	..
Oral ,, ...	15	..	..
Practical ,, ...	35	25	17
	100	65	45
Agricultural Engineering—			
Written examination	40	..	..
Practical examination { Paper	20	40	25
Practical examination { Oral	20		
Plans and estimates submitted	20		
	100	65	45
Surveying and Levelling—			
Paper work	40	..	..
Field ,, ...	40	40	25
Plans submitted	20		
	100	65	45

Dr. Leather who was consulted by Mr. Keess on this subject has no objection to the reduction of the minima in chemistry.

Enclosure.

Agricultural Engineering.

(Special.)

1. *Plan drawing and estimating.*—Use of simple drawing instruments. Plain scales. Connection between plan, elevation and sections. Information to be given on a plan. Pencil drawings of works enumerated in II, III and IV. Estimation of quantities and cost of those works.

2. *Building construction.*—Materials. Use and description of building stone; ground and platform moulded bricks; flat, pan pot and Mangalore tiles; fat and hydraulic lime, cement, sand and surki; lime, surki, cement and mud mortar; white and colour wash; teak, country wood, palmyra, bamboo.

Construction.—Coursed and random rubble masonry; brickwork in English bond; arched and lintels over door and window openings; arches and slabs for culverts; lime, surki and cement concrete; lime and surki plaster (one and two coats), cement plaster. Batten doors and windows. Couple and collar roofs for tiles and thatch. Floors with square bricks, brick on edge and concrete. Bamboo and leaf sheds. Method of sinking wells in sand, hard gravel and rock. Small buildings such as road dams, culverts, tool sheds, watchmen's huts, wells and cattle troughs, excavation, foundations.

3. *Road making.*—Surveying and setting out. Selection of centre line with reference to cost, position of villages, materials and value of land, longitudinal and transverse slope. Setting out cross sections, longitudinal and transverse slope. Earth work. Disposal of cross drainage by road dams and small culverts. Side drains. Surfacing of sand, gravel or metal. Maintenance. Repairs.

4. *Irrigation*—Irrigation from wells, tanks and rivers. Quantity and application of water.

Minor tanks.—Discharge from catchment areas by Ryves' formula. Construction and repair of tank bunds. Design and construction of escapes and irrigation sluices. Formulæ for the discharge of sluices and free overfall and submerged escapes and bywashes, escapes and sluices. Calculation of proper length of escapes.

Distribution Channels.—Discharge of a channel, $Q=A.V.$ Practical limits of fall and velocity in minor channels. Laying out channels. Excavation. Regulation of supply from head sluice.

Note.—Students will be allowed to use printed tables of Kutter's co-efficients in the examination hall.

5. *Machines.*—Parallelogram of forces by graphic method. Moments. The mechanical powers. Work. Unit of work. Efficiency of simple agricultural machines such as water-lifts.

The pencil drawings and estimates referred to in paragraph 1, authenticated by proper authority, shall be submitted to the examiners before the date of the examination.

The examination in this subject shall be devised to test the candidates' capacity of understanding the ordinary machines, and of carrying out works likely to be undertaken by agriculturists (including subordinates in the Land Revenue department) in Southern India.

It shall comprise—

(1) A written examination—
one paper of three hours' duration.

(2) An oral examination on the matters referred to in the syllabus with the aid of actual structures, models, materials, etc.

(3) A practical examination including—

(*a*) one or both of the following:—

(i) preparation of pencil drawings to scale from notes and specification of such works as are mentioned in the syllabus.

(ii) preparation of an estimate of quantities from a given plan for similar works.

For this portion of the examination three hours shall be allowed.

(*b*) Setting out on the ground a small building or other work mentioned in the syllabus.

The distribution of marks and the minima required for passing shall be as follows :—

—	Maximum.	Minimum for passing.	
		1st class.	2nd class.
Written examination	40	..	..
Practical examination { Paper	20	40	25
Practical examination { Oral	20		
Plans and estimates submitted	20		
Total ..	100	65	45

Surveying and Levelling—Intermediate Examination.

(Special for Diploma in Agriculture.)

1. *Surveying.*—Running a chain line; modes of passing obstacles, measuring offsets, use of cross staff.. Survey of areas with the chain only. Well-conditioned triangles, keeping the field book, testing the chain. Survey of areas with the plane table and chain. Plotting and calculation of areas.

2. *Levelling.*—Use of the level. Adjustments. Running lines of levels, keeping the field book, bench marks, check levels, longitudinal and cross sections. Plotting.

The examination shall comprise—

An oral and practical examination on—

(1) *Field work.*—One or more of the following—
- (*a*) Chaining lines between given points and taking offsets.
- (*b*) Making a site plan of a building.
- (*c*) Running a portion of a traverse with the plane table.
- (*d*) Running a short line of levels.
- (*e*) Setting outside widths.

(2) *Office work.*—One or more of the following (time three hours)—
- (*f*) Plotting a chain survey from field book.
- (*g*) Estimation of area of a given plan.

Questions will be put orally to candidates during the progress of the practical work.

Note.—Candidates must, at the time of application for the examination, submit the following finished surveys of moderately open country with a few buildings, with field books, certified to be their own work—

(1) Chain survey of not less than 10 acres. Scale = 1 inch to 2 Gunter's chains.

(2) Plane table survey of not less than 20 acres. Scale = 1 inch to 5 Gunter's chains.

(3) Line of levels not less than 1 mile in length with cross sections. Scales, horizontal, 1/1000. Vertical, 1/200.

The distribution of marks and the minima required for passing shall be as follows :—

—	Maximum.	Minimum for passing.	
		1st class.	2nd class.
Paper work	40	..	..
Field ,, ...	40	40	25
Plans submitted	20		
Total ..	100	65	45

Endt. Mis. 2161, Board of Revenue, Rev. Sett., L.R. and Agri., dated 1st July 1903.

Forwarded.

2. The Board has no objection to urge to the proposals of the Director of Public Instruction.

V. K. RAMANUJA CHARI,
Acting Secretary.

Order—No. 363, Educational, dated 30th July 1903.

The Governor in Council approves the syllabuses in agricultural engineering and surveying and levelling which have been submitted by the Director, the proposed changes in the minimum required for passing in these subjects and in agricultural and general chemistry, and also the omission of quantitative analysis from general chemistry.

(True Extract.)

A. G. CARDEW,
Ag. Secretary to Government.

To the Director of Public Instruction.
,, Chief Engineer.
,, Revenue department.

Forwarded to the

(By Order.)

First Assistant.

Ezd. V. A. Rajavelu.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 363, EDUCATIONAL, DATED 30TH JULY 1903.

[SUBJECT.—*Diploma in Agriculture.*]

From the Board of Revenue, No. 2161, *dated* 1*st July* 1903.

The subjects for the diploma in Agriculture and the syllabuses in those subjects which have been approved by Government are given on pages 18—25 of G.O., No. 429, Educational, dated 24th July 1902. The changes which the Director now proposes in the scheme for the examinations are—

(1) the retransfer of the subject of irrigation from the agriculture syllabus to the agricultural engineering syllabus;

(2) the separation of surveying and levelling from the agricultural engineering syllabus and their retention as a separate subject;

(3) the omission of quantitative analysis from the general chemistry syllabus;

(4) the omission of the separate minimum for a first class in the written and oral examinations in agricultural chemistry and the lowering of the minimum for a second class from 50 to 45 *per cent.*;

(5) the fixing of a minimum for a first class in general chemistry and the lowering of the minimum for a second class from 50 to 45 *per cent.*;

(6) the lowering of the minimum in the practical portion of the examination in agricultural engineering from 30 to 25 out of 60;

(7) the omission of the minimum for the paper work portion of the examination in surveying and levelling and the lowering of the minimum for a second class from 50 to 45 *per cent.*

2. The Board has no objection to these changes, but it is submitted that before they are approved they may be referred u.o. to the Revenue department for remarks. The Director's revised draft of the rules of the College of Agriculture and draft notification of the changes in the curriculum have already been referred to that department for remarks. It will be convenient if Revenue can let Educational have these remarks also back with the present file. **A**

This is a point on which it is not for the Educational department to express an opinion. The Government in the Revenue department are the same as the Government in the Educational department, and it is rather absurd for Government to tell themselves what is "convenient".

A. T. PRINGLE.

But this is at present merely a Secretariat matter.

A. G. CARDEW.

P. T. THARYAN—8-7-03.

3. The syllabus in agricultural engineering has been revised by an Engineer and now seems to be in proper form. The changes made are underlined in the appended sheets.

We may proceed as at **A.**

A. T. PRINGLE—9-7-03.

The Revenue department may be referred to u.o. as proposed.

A. G. CARDEW—10-7-03.

To the Revenue department.

REVENUE DEPARTMENT.

There appears to be no objection in this department to the "agricultural engineering" syllabus and to the treatment of "Surveying and Levelling" as a separate subject. The changes are noted by the Director at pages 3—4 of the current file. Please see also page 23 of G.O., No. 429, Educational, dated 24th July 1902, wherein the proposed changes are exhibited.

The Board of Revenue does not urge any objection, and the Director's proposals may therefore be approved in this department.

2. The revised draft of the rules of the Agricultural College referred to in paragraph 2 of the Educational note above has been returned to that department.

The draft * notification regarding changes in the curriculum has since been received from the Board of Revenue to whom it was referred, and is submitted in the linked file below.

* Also referred to in paragraph 2 of the above note.

A. APPADURAI—11-7-03.

There seems to be no objection as far as this department is concerned.

N. E. MARJORIBANKS—13-7-03.

I agree.

H. M. W[INTERBOTHAM]—14-7-03.

To the Educational department

EDUCATIONAL DEPARTMENT.

Put up a draft approving of the syllabuses.

A. G. CARDEW—15-7-03.

The draft placed below may issue.

P. T. THARYAN—16-7-03.

A. T. PRINGLE—27-7-03.

A. G. CARDEW—29-7-03.

J. T[HOMSON]—30-7-03.

[G.O., No. 363, Educational, dated 30th July 1903.]

1,000—16-8-01.

3341

Educational (1903) Department.

(Through the Director of Agriculture)

CURRENT No.

From

[Name] The Hon'ble Mr. G.H. Stuart, M.A.,

[Designation] Director of Public Instruction,

[Station] M a d r a s.

BOARD OF REVENUE * REVENUE SETT. LAND RECORDS & AGRICULTURE * 3 JUN 1903

Cur No. 4122 of 03

Dated 2nd June *1903.*

Received 3-6 *1903.*

Enclosures One

Registered 3-6 *1903.*

SUBJECT.

Submitting for the approval of Government the syllabuses in Agricultural Engineering and Surveying and Levelling as revised by Mr. Ashpital.

BACK PAPERS.

G.O. No. 429 dated 24-7-02

FURTHER PAPERS.

K

To

The Secretary to Government,

Educational Department.

(Through the Director of Agriculture.)

Sir, With reference to paragraph 8 of G.O.No. 429 Educational, dated 24th July 1902, I have the honour to submit for the approval of Government the syllabuses in Agricultural Engineering and Surveying and Levelling as revised by Mr. Ashpital. The subject of irrigation which previously formed part of the Engineering syllabus was transferred by the Committee to the Agriculture syllabus. It is not known what reasons led the Committee to make the change; but I consider that the subject cannot be properly dealt with by the examiners in Agriculture and that it should be re-transferred to the Agricultural Engineering syllabus. The Committee, while recommending the inclusion of Surveying in the Agricultural Engineering syllabus, proposed, as will be seen from the syllabus framed by them, to have a separate minimum for Surveying and Levelling. Practically therefore it is treated as a separate subject and the simplicity obtained by joining it to Engineering is only apparent, while the advantage of keeping the subjects separate is that they can be disposed of at different stages of the course of instruction. Mr. Ashpital who was consulted approves of the Engineering syllabus as now submitted.

2. In the General Chemistry syllabus, the portion "C-- Quantitative analysis-----" under Chemical laboratory work is identical with what is given under Agricultural Chemistry and its inclusion in the former is considered both by Mr. Keess and by Dr. Leather to be a clerical error. I request that it may be removed from under General Chemistry.

3. In the revised syllabuses the minimum for a pass in certain subjects is proposed to be 50 per cent. I consider that this

Educational

~~Revenue~~ (1903) Department.

CURRENT No. 1037

From

The Board of Revenue,

Revenue Settlement, Land Records and Agriculture,

Madras.

SECRETARY TO GOVERNMENT 5-JUL 1903 LOCAL & MUNICIPAL DEPARTMENT

No. 2161 Mis

Dated 1st July 1903. ~~190~~.

Enclosures

Received 190 .

Registered 6-7- 190 3.

SUBJECT.

Syllabuses in Agri: Engineering and Surveying and Levelling.

Forwarding to Govt. letter from the Director of Public Instruction, submitting for approval the ----------, as revised by Mr. Ashpital, and stating that the Board has no objection to urge to the proposals of the Director of Public Instruction.

BACK PAPERS.

G.O.no.429 dated 24-7-02
G.O.no.535 dated 3-9-02
G.O.no.590 dated 22-9-02
G.O.no.687 dated 5-11-02

FURTHER PAPERS.

[E. / 4]

1,000—25-10-01.

EDUCATIONAL DEPARTMENT.

4

8

READ AGAIN G.O., No. ....., dated ..... 190 .

" " " " ....., " ..... 190 .

READ ALSO:—

C. No. 1037, From the Board of Rev LR&A, No. 261, dated 12/4/ 1903.

" ", ..., " ", ..., " ....., " 190

" ", ..., " ", ..., " ....., " 190

ORDER
P.J.

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PJ
16/7/3

To the OPG
" CSG
" Revenue Depart.

Government {1903} of Madras.

EDUCATIONAL.

Recd.	} 1903.	*Enclosures*
Regd.		*Spare copies*

G.O., No. 363, 364 July 1903.

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(Special.)

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(Special for Diploma in Agriculture.)

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Forwarded.

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V. K. RAMANUJA CHARI,
Acting Secretary.

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(True Extract.)

Ag. Secretary to Government.

To the Director of Public Instruction.
,, Chief Engineer.
,, Revenue department.

Exd. V. A. Rajavelu.

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STATEMENT WITH DITTO.

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