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[Despatch Abstract.]

Rules for the working of the College of Engineering.

Approving the revised rules submitted by the D.P.I relating to the working of the College of Engineering and ordering their publication in the Fort St George Gazette

BACK PAPERS.

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

FURTHER PAPERS.

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

Government of Madras.

EDUCATIONAL DEPARTMENT.

Recd. } 1907. *Enclosures*

Regd. *Spare copies*

G.O., No. 159, 20th March 1907.

Rules for the working of the College of Engineering.

Approving the revised rules submitted by the Director of Public Instruction relating to the constitution and working of the College of Engineering and ordering their publication in the *Fort St. George Gazette.*

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—the following papers :—

I

G.O., No. 723, Educational, dated 12th December 1904.

Abstract.—Appointing a Committee to consider the revision of the syllabus of studies and the curriculum of the College of Engineering, Madras.

II

G.O., No. 655, Educational, dated 3rd October 1905.

Abstract.—Passing orders on the report of the Committee appointed to consider the extension and reorganization of the College of Engineering.

III

G.O., No. 657, Educational, dated 10th October 1906.

Abstract.—Passing orders on the remarks of the Committee appointed in connection with the extension and reorganization of the College of Engineering and requesting the Director of Public Instruction to submit proposals for the introduction of the scheme of reorganization as approved and also proposals for the revision of the rules of the College.

IV

Letter—from the Hon'ble Mr. T. F. Logan, B.A., Acting Director of Public Instruction.
To—the Secretary to Government, Educational Department.
Dated—the 13th February 1907.
No.—Ref. on Cur. No. 7765 of 1906.

With reference to G.O., No. 657, Educational, dated 10th October 1906, I have the honour to submit herewith, in print, two copies of the revised rules for the College of Engineering drafted by the Principal, together with such further modifications and explanatory notes made in manuscript as have been considered necessary. A copy of Colonel Love's letter, No. 2080-C., dated 24th January 1907, is also enclosed for favour of early consideration with special reference to paragraphs 10 and 11 thereof.

2. It will be observed that the Principal's recommendation for the abolition of subject minima in the different examinations is not based on the Committee's report. In reply, however, to a reference made to him as to whether it is not necessary to insert a clause in the revised rules so as to provide against the undue neglect of any important individual subject, Colonel Love says :—

The Committee lay down in paragraph 8 (1) of their first report that a student must qualify at each sessional examination and at the final examination, and as nothing is said about subject minima, it is assumed that the Committee did not desire to impose these minima in addition to the three which they prescribe. If they did so desire or intend, the effect would be to treble the number of existing minima, which experience shows to be already much too large. Considering that under the new rules, the privilege of appearing as independent candidates is withdrawn from ex-students, and that there will be three examination minima besides a special minimum in practical surveying, I am of opinion that no further minima should be required. If however my contention is overruled, then I consider that the utmost that should be demanded is a minimum of 33 per cent. of the final totals under Branches I and II separately for the Engineer and Upper Subordinate classes. I do not however recommend this further condition.

3. As stated in the explanatory notes in connection with paragraphs 42—48 of the revised rules, the Chief Engineer, Public Works Department, has been addressed on the question of staff allowance to military apprentices. A copy of the Principal's letter on the subject (No. 152-C., dated 3rd May 1904) is enclosed for the information of Government.

Enclosures.

(1)

Letter—from Colonel H. D. Love, R.E., Principal, College of Engineering.
To—the Director of Public Instruction.
Dated—Madras, the 24th January 1907.
No.—2080/C.

Adverting to your Proceedings, Ref. on Cur. No. 7765 of 1906, dated 30th October 1906, I have the honour to submit proposals for the introduction of the scheme of reorganization approved in G.O., No. 657, Educational, dated 10th October 1906, so far as it can be applied to the College on its present status. I also submit proposals for the revision of the College Rules.

2. I consider that the whole scheme may be introduced immediately, with the exception of that portion which provides for separate courses of instruction for the Civil and Mechanical Engineer classes This portion must, in my opinion, stand over until new workshops and laboratories have been erected and equipped. In the meantime the existing course of instruction for the Engineer class should be retained.

3. On this basis, draft revised rules have been drawn up. They are printed side by side with the existing rules, for facility of comparison, and are now submitted. The reasons for the changes made are exhibited in a third column of Explanatory Notes. A few minor modifications have been effected in the scheme of marks proposed for the several classes by the College Committee, reasons being given for the alterations made.

4. Following the draft revised rules are draft revised syllabuses for the different classes. These are printed side by side with the existing syllabuses.

5. It seems highly desirable that the new scheme should be introduced at the earliest possible date. Under existing rules, a class of Engineer Subordinates is admitted in July on the results of an Entrance Examination held in April. The latest date for the receipt of applications from candidates is the third Monday in March. The Gazette notification regarding the examination must be published on the 26th February 1907, and it will be necessary for me to know, not later than the 20th February, whether this notification is to be published or not.

6. I hope that it may be found possible to introduce the revised rules with effect from the 1st April 1907 If this can be done, I propose to notify in the Gazette about the beginning of April that 30 First Arts candidates will be selected for the Upper Subordinate class, 30 Matriculates (*i.e.*, a class of half the full strength) for the Lower Subordinate class, and 5 Non-Commissioned officers and soldiers of British Regiments for the Military Probationers' class, and that the selected candidates will join the College on the 15th July 1907.

7. In July 1908 and in each succeeding July, classes of full strength will be formed, *i.e.*, an Engineer class of 20, an Upper Sudordinate class of 30, a Lower Subordinate class of 60 and a Military Probationers' class of 5 students.

8. These proposals, if carried out, will have the following effect on the numbers in the College :—

Years.	Number.
January 1907	260
July 1907	325
January 1908	205
July 1908	320
January 1909	200
July 1909	315
July 1910	345

9. The first batches of students entering under the new rules would then complete their courses as under—

Engineer class	College course	April 1911
	Practical course	April 1912
Upper Subordinate class.	College course	April 1910
	Practical course	April 1911
Lower Subordinate class.	College course	April 1910

10. In regard to the deputation of a special officer to prepare plans and estimates for the new College at Saidapet, referred to in paragraph 2 of G.O., No. 657, Educational, dated 10th October 1906, I venture to suggest that, in view of the large sum of money which must be expended on workshops and laboratories, it would tend towards both economy and efficiency if Mr. W. H. James were deputed during the ensuing vacation to visit some of the principal Technical College laboratories in England and on the Continent. Under the new rules, the

vacation is to extend over two and-a-half months, and as the survey camp must be held this year in July (since the majority of students will be working under the existing scheme), it would be possible for Mr. James to be absent from Madras until the middle of August without prejudice to the College. The laboratories which he might visit are those of Edinburgh, Glasgow, Manchester, Cambridge and London in Great Britain and those of Berlin, Hanover, Stuttgart, Dresden, Zürich and Münich on the Continent.

11. In conclusion, I desire to point out that in order to introduce the new rules for the class or classes joining in July 1907, the rules must be published about the 1st April; and that the decision to do so should be communicated to me not later than the 20th February in time to stop the issue of the usual Gazette notification under the existing rules.

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(2)

Letter—from Colonel H. D. Love, R.E., Principal, College of Engineering.
To—the Director of Public Instruction.
Dated—Madras, the 3rd May 1904.
No—152/C.

I have received a communication from Corporal Grant, R.F.A., one of the military students of this college, representing the insufficiency of the sum of Rs. 80 per mensem which constitutes the normal salary of a military apprentice overseer. The changed conditions of the soldier's pay in India as well as the increased cost of living seem to call for consideration of the sufficiency of the amount.

2. The rate of Rs. 80 which was fixed many years ago is laid down in the Public Works Code, Chapter II, paragraph 201, under which the allowance to be paid to a military apprentice overseer by the Public Works Department is fixed at such sum as must be added to his regimental pay and allowances to bring the total up to Rs. 80.

3. Some few years ago the soldier's pay was increased by $3\frac{1}{2}d.$ a day on condition of his foregoing his deferred pay of 2*d.* a day. The increase is now treated as a portion of his military pay and allowances, and it forms part of the sum of Rs. 80 above referred to. The effect is that the military apprentice overseer loses 2*d.* a day instead of gaining $3\frac{1}{2}d.$

4. Under Army Order No. 66 of the 1st April 1902 an increase of pay of 2*d.* a day was sanctioned, and by order No. 196 of 17th March 1904 a further augmentation of from 4*d.* to 7*d.* per day. It is evident that this increase cannot benefit the apprentice overseer except by so much as it may bring his regimental pay and allowances above Rs. 80.

5. If a man's regimental pay and allowances exceed Rs. 80 he is worse off as an apprentice overseer than as a college student; for he loses the stipend of Rs. 11 per mensem, which he draws during his course of study. This will be clear from the following statement which shows the rates to the nearest rupee for a 31-day month taking the service pay for non-commissioned officers at 7*d.* and for privates and gunners at 5*d.* per diem.

—	Regimental pay and allowances.	College stipend.	Total while at college.	Staff allowance as apprentice overseer.	Total as apprentice overseer.
Infantry.	Rs.	Rs.	Rs.	Rs.	Rs.
Private	51	11	62	29	80
Corporal	70	11	81	10	80
Sergeant	86	11	97	..	86
Cavalry.					
Private	55	11	66	25	80
Corporal	78	11	89	2	80
Sergeant	94	11	105	..	94
Artillery, R.F.A. & R.G.A.					
Gunner or driver	56	11	67	24	80
Bombardier	84	11	95	..	84
Corporal	90	11	101	..	90
Sergeant	105	11	116	..	105
Artillery, R.H.A.					
Driver	57	11	68	23	80
Gunner	59	11	70	21	80
Bombardier	88	11	99	..	88
Corporal	94	11	105	..	94
Sergeant	109	11	120	..	109

6. The non-commissioned officers among the military students experience a double hardship in that (1) they draw less as apprentice overseers than as college students; (2) they benefit little, if at all, by their military rank during a period in which they draw their pay from their regiments. When the apprentices join the Public Works Department permanently they are promoted to Sergeant on the unattached list, and draw a uniform salary as under:—

Staff Sergeant, Public Works Department.

	Rs.	A.	P.
Pay as colour sergeant of infantry at 3*s.* per diem	69	12	0
Extra allowance of 2*d.* per diem	3	14	0
Messing allowance	4	5	9
Service pay at 7*d.* per diem	13	9	0
Ration money	10	0	0
Staff salary	85	0	0
Total ..	186	8	9

It appears to be not unreasonable that at the time of entering Civil employment all Military overseers should be placed on an equality; but so long as they are borne on regimental rolls and carry different ranks, their pay in my opinion should vary with rank.

7. Since the time when the allowance of Rs. 80 for apprentice overseers was fixed as the minimum suitable for their requirements, the cost of living has substantially increased; and the recent material additions to the soldier's pay are the result of a recognition of the fact. If the apprentice overseer is to benefit by these additions, and I think there can be no doubt that he should, a fixed stipend to be paid by the Public Works Department should be granted in addition to his regimental pay and allowances. I suggest that such stipend might be Rs. $42\frac{1}{2}$ or half the staff pay which he will ultimately receive as an overseer.

8. If these views commend themselves to you and to the Chief Engineer, the opinion of the Principal of the Thomason College, Roorkee, might be obtained before any alteration in the Public Works Code is decided on.

V

Letter—from the Hon'ble Mr. T. T. Logan, B.A., Acting Director of Public Instruction.
To—the Secretary to Government, Educational Department.
Dated—Madras, the 27th February 1907.
No.—Ref. on Cur. No. 7765/6.

In continuation of my letter, R.C. No. 7765/6, dated 13th February 1907, I have the honour to submit herewith in print two copies of the draft revised syllabuses for the College of Engineering.

Order—No. 159, Educational, dated 20th March 1907.

With his letter read above, the Director of Public Instruction submits the revised rules relating to the constitution and working of the College of Engineering which have been drawn up in accordance with the proposals of the Committee appointed under G.O., No. 723, dated 12th December 1904, as accepted by Government. The rules, as revised by Government, are appended to this order. There are a few points on which it is desirable to remark—

(1) It is not necessary to include in the rules any statement as to the recruitment of the teaching staff.

(2) *Rule* 12.—The rule as submitted omits the Language course. It appears to Government that there will be a great practical advantage in holding Language classes at the College, as the students have to qualify and pass in the vernacular if they are to join the public service. The matter will, however, be further considered and separate orders issued later on.

(3) *Rules* 14, 20 *and* 25.—Separate minima have been assigned for Mathematics, Drawing, Hydraulic Engineering and Mechanical Engineering in the case of the students of the Engineer and Upper Subordinate class and for Drawing and Surveying in the case of the students of the Lower Subordinate class.

(4) *Rule* 26.—If the limitation of the number of students to be admitted to the Lower Subordinate class to 60 is likely to have a material effect in keeping out students from pursuing professional studies, the rule will be reconsidered.

(5) *Rule* 40.—The Director of Public Instruction is requested to report what arrangements are made for the cheap supply of books and instruments to the students.

(6) *Rule* 46.—Separate orders will issue on the question of granting enhanced allowances to the Military apprentice overseers. In the meantime the existing arrangements should stand.

(7) *Rule* 49.—The annual contribution to the College Recreation Club has been reduced to the original sum of Rs. 4 per annum.

(8) The Government consider that rule 77 of the existing rules, which provides for the submission of the College time-table to the Director of Public Instruction, should be retained.

2. The rules will be published in the *Fort St. George Gazette*. They shall come into force on the 1st April 1907.

(True Extract.)

H. D. Taylor,
for *Ag. Secretary to Government.*

To the Director of Public Instruction.
,, Public Works Department
Editors' Table.

APPENDIX.

Fort St. George, March 25, 1907.

No. 30.—

RULES RELATING TO THE CONSTITUTION AND WORKING OF THE COLLEGE OF ENGINEERING, MADRAS.

Object.

1. The College, which is affiliated to the Madras University, affords theoretical and practical instruction in subjects qualifying for the professions and callings of civil engineer, mechanical engineer, upper subordinate engineer, lower subordinate engineer, surveyor and draftsman, in view of fitting persons for employment in such capacities by Government, by Local Boards and Municipalities, and by other agencies.

2. Students of the higher course in engineering are, at the same time, prepared for the B.E. degree examination of the Madras University.

Control.

3. The responsibility for the discipline and management of the College is vested in the Principal, under the control of the Director of Public Instruction.

Board of Visitors.

4. A Board of visitors, consisting of a President and three members, shall for the present be constituted to advise the Director of Public Instruction and the Government. The Board shall be composed as follows :—

President—The Chief Engineer, Public Works Department.

Members—The Chief Engineer, Madras Railway Company.
The Chief Engineer, Madras Port Trust.
The President of the Faculty of Engineering of the Madras University, or a member of the Faculty to be nominated by the Syndicate if the President of the Faculty is already included in the Board under any of the foregoing designations.

Secretary—The Principal of the College.

Staff.

5. The staff shall consist of a Principal, two professors of engineering, a professor of mathematics and science, and an adequate number of lecturers and demonstrators. There shall also be a workshop instructor with foremen assistants, and an instructor in drill and gymnastics. Special lecturers may also, when necessary, be employed with the sanction of Government.

College Year, Vacations and Holidays.

6. The College year shall consist of—

(*a*) A first term extending from about the 15th July to about the 10th October. The last ten days of the term shall be devoted to inspection tours.

(*b*) A second term extending from about the 11th October to about the end of April. A Survey camp lasting about a month shall be formed immediately after the Christmas holidays.

(*c*) A vacation extending from about the 1st May to about the 14th July as may be notified by Government.

7. When any of the above term dates fall on a Saturday or Sunday they may be varied at the discretion of the Principal to an extent not exceeding two days.

8. The gazetted holidays for Christmas and Easter shall be enjoyed, and the casual holidays allowed by Chapter VII of the Educational Rules, Fifth Edition, shall apply as far as the special character of the College may permit.

9. The first and second terms together constitute a College Session.

Classes.

10. The College shall contain the following classes :—

(i) *Engineer class*—for the training of (*a*) civil engineers, and (*b*) mechanical engineers.

(ii) *Upper Subordinate class*—for the training of upper subordinates for the Public Works Department, Revenue Department, Local Boards and Municipalities.

(iii) *Lower Subordinate class*—for the training of lower subordinates, surveyors and draftsmen for the Public Works Department, the Survey Department, Revenue Department, Local Boards, Municipalities, Railways, etc.

Courses of Instruction.

(i) *Engineer Class.*

[Note.—A revised course for the Engineer class will be published later. For the present, pending the construction of new laboratories and workshops, the course will be as follows :—]

11. The course of instruction shall extend over four years, of which three shall be spent in the College and the fourth chiefly on works. The course in the College shall be both theoretical and practical. Theoretical instruction shall be conveyed by lectures; while the practical work shall consist of surveying in the field, drawing, and work in the workshops and laboratories. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total. Students who desire to become Civil Engineers shall spend the final year in a Public Works division; those who wish to become Mechanical Engineers shall spend it in an engineering workshop.

12. The subjects of study and the marks assigned to each shall be as follows :—

		Marks.
Branch I.—Mathematics and Science.		
1. Algebra (150), 2 Geometry (200), 3 Mensuration (150), 4 plane trigonometry (150), 5 calculus (250), 6 Mechanics (300), 7 hydro-mechanics (200), 8 heat (200), 9 chemistry (200)		1,900
Branch II.—Engineering.		
1. Drawing— Geometrical and Perspective (120), freehand and model (80), machine (200), building (300), estimating (200), practical work (300)	1,200	
2. Applied mechanics	400	
3. Building materials	100	
4 Building construction	200	
5. Hydraulic engineering	200	
6. Mechanical engineering	200	
7. Workshop practice, etc.	400	1,500
8. Surveying— Chain compass and plane table (150), level (150), theodolite (150), topographical drawing (200), practical work (350)	1,000	
		3,700
Physical Exercises		400
		6,000

13. Of the total marks, 4,400 shall be awarded by the Board of Examiners for examination work, and 1,600 by the College Staff for practical work and physical exercises. Sessional examinations shall be held at the end of the first and second years, at which portions of the above subject shall be finally disposed of by the Board of Examiners. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying.

14. In order to pass an examination, a student must obtain 33 per cent. of the marks, assigned to each of the following subjects, namely, mathematics, drawing, hydraulic engineering, and mechanical engineering, and half the aggregate marks awardable at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships, prizes or guaranteed appointments. No student shall be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed.

15. Students shall be expected to present themselves for the first examination in engineering of the Madras University at the end of their second year of study, and for the B.E. degree examination towards the end of their practical course.

16. Students who are successful at the College final examination shall proceed to the practical course. Those who elect to become Civil Engineers shall be attached to a Public Works division where large works are in progress, and will be regularly instructed in the preparation of materials, the practical details of construction, the management of labour, and the system of accounts. Those who elect to become Mechanical Engineers will proceed to the Public Works workshops. One mechanical engineer student will be permitted each year to join the Madras Railway Locomotive shops at Perambúr, the concession being offered in the order of merit at the final examination. The premium will be Rs. 500, of which half will be defrayed by the Educational Department, the other half being met by the student. The premium will cover a course of two years, of which one year is obligatory. Other mechanical engineer students may attend at Perambúr on payment of the full premium. All students shall receive lessons in riding during the practical course.

(ii) *Upper Subordinate Class.*

17. The course of instruction shall extend over four years, of which three shall be spent in the College and the fourth on works. The course in the College shall be both theoretical and practical. Theoretical instruction shall be conveyed by lectures, while the practical work shall consist of surveying in the field, drawing, and work in the workshops. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total.

18. The subjects of study and the marks assigned to each shall be as follows :—

		Marks.
Branch I.—Mathematics.		
1. Arithmetic (150), 2. Algebra (150), 3. Geometry (150), 4. Mensuration (150), 5. Plane Trigonometry (150)		750
Branch II.—Engineering.		
1. Drawing.—Freehand and model drawing (100), geometrical drawing (300), machine drawing (150), building drawing and estimating (550)	1,100	
2. Applied mechanics	500	
3. Construction	500	
4. Hydraulic engineering	400	
5. Mechanical engineering	300	
6. Surveying—Surveying with chain, compass and plane table (250), levelling (250), theodolite surveying (250)	750	
		3,650
Workshop Practice		300
Physical Exercises		300
		5,000

19. Of the total marks, 3,200 shall be awarded by the Board of Examiners for Examination work, and 1,800 by the College Staff for practical work and physical exercises. A sessional examination shall be held at the end of each year at which portions of the above subjects shall be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying.

20. In order to pass an examination a student must obtain 33 per cent. of the number of marks assigned to each of the following subjects, namely, mathematics, drawing, hydraulic engineering and mechanical engineering, and half the aggregate marks awardable at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships, prizes or guaranteed appointments. No student will be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed.

21. Students who are successful at the final examination shall be attached for one year to Public Works divisions where large works are in progress, and shall be regularly instructed in the preparation of materials, the practical details of construction, the management of labour, and the system of accounts. They shall receive lessons in riding during the practical course.

(iii) *Lower Subordinate Class.*

22. The course of instruction shall extend over three years. Theoretical instruction shall be conveyed by lectures, while the practical work shall consist of surveying in the field, drawing, and work in the workshops. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total.

23. The subjects of study and the marks assigned to each shall be as follows :—

	Marks.
(1) Drawing—Freehand and model drawing (200), Geometrical drawing (300), Machine drawing (250), Building drawing and estimating (600)	1,350
(2) Applied Mechanics	400
(3) Construction	550
(4) Surveying—Surveying with chain, compass and plane table (400), levelling (400), theodolite surveying (400)	1,200
Workshop Practice	250
Physical Exercises	250
	4,000

24. Of the total marks, 1,750 shall be awarded by the Board of Examiners for examination work, and 2,250 by the College Staff for practical work and physical fitness. A sessional examination shall be held at the end of each year at which portions of the above subjects shall

be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying.

25. In order to pass an examination a student must obtain 33 per cent. of the number of marks assigned to each of the following two subjects, namely, drawing and surveying, and half the aggregate marks awardable at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships or prizes. No student will be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed.

Strength of Classes.

26. The number of students to be admitted annually shall ordinarily be limited to 20 in the Engineer class, 30 in the Upper Subordinate class, and 60 in the Lower Subordinate class.

Admissions and Withdrawals.

27. All applications for admission shall be submitted in a prescribed form.

28. Admission shall be once a year, on the 15th July (unless that date falls on a Saturday or Sunday, when the students shall join on the following Monday) for all classes.

29. The Principal may refuse admission to any candidate whose previous conduct has not been satisfactory. His order shall be subject to appeal to the Director, whose decision shall be final.

30. Withdrawals in the case of scholarship-holders shall, except for good and sufficient reasons, be allowed only on completion of the course for which the scholarships have been awarded.

Qualifications for Admission.

(i) *Engineer Class.*

31. Candidates must have passed the B.A. degree examination of the Madras University with Mathematics or Physical Science (II-A) as an optional subject or an examination accepted by Government as equivalent thereto, and must be under 22 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed twenty. If the number of applicants exceeds twenty, admission shall be regulated by selection by the Principal. Persons who present themselves for the B.A. degree examination in Mathematics or Physical Science (Group II-A of Part II) during the year of application for admission to the College may register their names, but their eligibility for admission will be contingent on their passing the examination.

32. Candidates otherwise qualified, but whose age exceeds the maximum above laid down may be admitted with the sanction of the Director of Public Instruction, if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes.

33. The fee for registration for admission shall be Rs. 5, which will under no circumstances be refunded. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(ii) *Upper Subordinate Class.*

34. Candidates must have passed the First Examination in Arts or Intermediate examination of the Madras University or an examination accepted by Government as equivalent thereto and must be under 22 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed thirty. If the number of applicants exceeds thirty, admission shall be regulated by selection by the Principal. Persons who present themselves for the Intermediate examination during the year of application for admission to the College may register their names, but their eligibility for admission will be contingent on their passing the examination.

35. Candidates otherwise qualified, but whose age exceeds the maximum above laid down, may be admitted, with the sanction of the Director of Public Instruction, if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes.

36. The fee for registration for admission shall be Rs. 4, which will under no circumstances be returned. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(iii) *Lower Subordinate Class.*

37. Candidates must have passed the Matriculation examination of the Madras University, or an examination accepted by Government as equivalent thereto, and must be under 22 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed sixty. If the number of applicants exceeds sixty, admission shall be regulated by selection by the Principal. Persons who present themselves for the Matriculation examination during the year of application for admission to the College may register their names, but their eligibility for admission will be contingent on their passing the examination.

38. Candidates otherwise qualified, but whose age exceeds the maximum above laid down, may be admitted, with the sanction of the Director of Public Instruction if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes.

39. The fee for registration for admission shall be Rs. 3, which will under no circumstances be returned. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(iv) *All classes.*

40. The selected candidates of all classes shall join the College on the 15th July (unless that day falls on a Saturday or Sunday, when they shall join on the following Monday), and shall each on that day deposit with the Principal—

(*a*) a sum of money, to be drawn against for instruments and books, which shall be for the engineer class Rs. 120, for the upper subordinate class Rs. 100, and for the lower subordinate class Rs. 80;

(*b*) a health certificate from a gazetted Government Medical officer to the effect that the candidate is fit for the outdoor work of the Public Works department, and that he has had small-pox or has been vaccinated;

(*c*) his University diploma or certificate;

(*d*) testimonials of good character covering the last two years;

(*e*) satisfactory evidence of age;

(*f*) a leaving certificate from his last college or school.

Military Students.

41. Non-commissioned officers and soldiers of His Majesty's British Service will, to the number of five annually, be admitted to the College. They must hold a first-class Army-School certificate, and must ordinarily have been brought up in Great Britain or Ireland, or in some non-tropical British Colony. If more than five candidates apply, selection will be made by the Principal, who will give preference to those who have practised a trade. Candidates must be of thoroughly good character, well recommended by their commanding officers, and under 28 years of age on the 30th June of the year of admission. They must have had not less than two years' service prior to the date of admission to the College. Applications will be received by the Principal up to the last day of May. Each candidate's application shall be forwarded by his commanding officer to the Principal, and shall be accompanied by the following documents relating to the candidate—

(*a*) extract from regimental defaulter's and court-martial books for the whole period of service;

(*b*) extract from company defaulter's book for the preceding two years;

(*c*) certificate that the candidate was brought up in Great Britain or Ireland, or in some non-tropical British Colony;

(*d*) statement of the trade followed by the candidate before enlistment;

(*e*) statement that the candidate holds a first-class Army School certificate;

(*f*) statement whether the candidate is married or unmarried;

(*g*) certificate of good eye-sight, sound health and unimpaired constitution, signed by a medical officer in the following form:—

I certify that I have carefully examined A.B., and that to the best of my belief his eye-sight is good and he has no disease, constitutional affection or bodily infirmity, unfitting him, or likely to unfit him, for out-door employment as an Upper Subordinate in the Public Works Department.

Name.

Designation.

42. The selected candidates shall join the College on the 15th July, and bring with them—

(*a*) a descriptive roll;

(*b*) the record of service;

(*c*) a last-pay certificate;

(*d*) last clothing and bedding certificates;

(*e*) a certified list of clothing and necessaries in their possession when quitting their regiment;

(*f*) a certificate of the carriage, if any, furnished to them at the Government expense, etc., on leaving their regiments to proceed to Madras.

43. When not furnished with carriage to enable them to join, a certificate shall be given to this effect, and they shall then receive travelling allowance at the rate of one anna per mile. A double allowance shall be granted to married men if they are accompanied by their wives.

44. The selected candidates shall on joining attend as probationers for one year during which they will prepare for a College qualifying examination in Mathematics, English and Elementary Drawing. Probationers who fail to pass this examination shall at once revert to their corps. Those who pass shall join the first year Upper Subordinate class as regular students.

45. While studying at the College Military students shall be considered as doing duty, and shall remain on the strength of their respective regiments, without prejudice to their promotion and other advantages until they are appointed to the Public Works Department. They shall be provided with barracks and married quarters at the College, shall wear the undress or fatigue uniform of their rank and regiment, and shall be under the command of the Principal, or in his absence, of the Superintendent of Military students. They shall receive, whilst at the College, the same pay as with their regiments, including good-conduct pay when entitled to it, together with rations or compensation in lieu, and a College allowance of Rs. 11 per mensem to cover extra messing and other expenses. They shall be exempted from the payment of College fees, and shall be supplied *gratis* with drawing instruments and the text-books in use. They shall not compete for civil scholarships, but shall be eligible for medals and prizes. The Principal may remand any student to his regiment for insufficient progress or unsatisfactory conduct.

46. Military students who pass the final examination at the end of the course of study shall be appointed Apprentice Overseers for one year. During this period they shall retain their position as students, and shall continue to be borne on College and regimental lists. Their Military pay and clothing shall be drawn from the Military Department by the Executive Engineers of the divisions to which they are attached. The apprentices shall be provided with free quarters or compensation in lieu, and shall receive a staff allowance sufficient to bring their total consolidated pay up to Rs. 80 * per mensem. Married men shall receive in addition the usual regimental allowances for wife and children. Any apprentice who is unfavourably reported on shall revert to his corps. Military apprentices shall receive travelling allowance at the rate of two annas per mile, or in case of portions of the journey performed by railway, at one anna and a half per mile for the journey from Madras to the site of the work to which they are posted, and for all journeys performed on transfer during their apprenticeship.

47. At the expiration of the year of apprenticeship the Military apprentices shall, in the order of merit determined by the College final examination, and to the extent of the requirements of the Public Works Department, be appointed to the permanent establishment as first-grade Overseers. Any apprentices who may not be required shall revert to their corps, but shall be eligible for employment in the Public Works Department in a subsequent year, or in the Military Works Service at any time. An outfit allowance of Rs. 150 shall be granted to Military apprentices on their appointment to the Public Works Department.

Fees.

48. *Tuition fees.*—The following shall be the fees payable in advance by students while at the College. Fees shall, under no circumstances, be returned after a student has been admitted to the institution :—

Class.	For the full theoretical course.	Sessional rate.	Monthly rate.
	Rs.	Rs.	Rs.
Engineer class	360	130	12
Upper Subordinate class	180	65	6
Lower Subordinate class	100	37½	4

49. *Special fees.*—A contribution of Rs. 4 per annum shall be made by each student to the College Recreation Club. The riding course fee for students of the Engineer and Upper Subordinate classes shall be Rs. 15. The premium payable by mechanical engineer students at Perambúr is laid down in rule 16.

50. *Examination fees.*—Students shall pay fees at the following rates for admission to the College Examinations :—

	Rs.
Engineer class	20
Upper Subordinate class	15
Lower Subordinate class	10

These fees, which cover in each case all the examinations held during the course, shall be paid before the commencement of the final examination.

Scholarships, Stipends and Prizes.

(i) *Engineer Class.*

51. *Government scholarships.*—Two scholarships of the monthly value of Rs. 15 each will be annually awarded in each of the three class-divisions. At the commencement of the first year of study they will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the

* They shall, when posted to hill stations, also draw a local allowance of Rs. 10 per mensem.

monthly value of Rs. 15 will be awarded annually in each class-division by the Director of Public Instruction on the recommendation of the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan or Indian Christian, or a European or Eurasian, in the order named. One scholarship of Rs. 20 per mensem, tenable for three years, may, under Gazette Notification dated 11th August 1902, be awarded annually to a European or Eurasian student at the beginning of the course of study.

52. *Other scholarships.*—The Government of Mysore awards Engineering scholarships annually of Rs. 30 per mensem tenable for three yeers. The University scholarships founded by the Maharajas of Travancore and Cochin, of the value of about Rs. 30 per mensem, tenable for the minimum period necessary to qualify for the B.E. degree, may be held by students of the Engineer class. All these scholarships are tenable only by students who are subjects of the States concerned.

53. Scholarships may be reduced or forfeited for misconduct, idleness, or want of progress.

54. A gold medal will be awarded to the student who passes highest at the final examination. Prizes will be given to students who display proficiency in special subjects.

55. During the year of practical training subsistence allowances of Rs. 50 per mensem for Europeans and Eurasians, and Rs. 25 per mensem for Indians shall ordinarily be granted; but these amounts shall be increased to Rs. 60 and Rs. 37½ per mensem respectively in the case of students posted to hill stations. The grant of subsistence allowance shall be contingent on the good conduct and satisfactory progress of the student; and on proof of misconduct or idleness the allowance may be withdrawn by the Principal on the recommendation of the Executive Engineer or the officer in charge of workshops. Travelling allowances to students joining or on the works shall be drawn at the rates sanctioned for officers of the third class under the Civil Service Regulations.

(ii) *Upper Subordinate Class.*

56. *Government scholarships.*—Two scholarships of the monthly value of Rs. 10 each will be awarded annually in each of the three class-divisions. At the commencement of the first year of study the scholarships will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the monthly value of Rs. 10 will be awarded annually in each of the three class-divisions by the Director of Public Instruction on the recommendation of the Principal, to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan, or Indian Christian, or a European or Eurasian, in the order named. One scholarship of Rs. 15 per mensem, tenable for three years, may, under Gazette Notification dated 11th August 1902 be awarded annually to a European or Eurasian student at the beginning of the course of study.

57. *Walker scholarship.*—A scholarship of the value of about Rs. 13 per mensem is tenable for three years by a student who is a native of the Malabar, South Canara or Nilgiri district, and who possesses a fair knowledge of Malayalam or Canarese.

58. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

59. A silver medal will be awarded to the student who passes highest at the final examination. Prizes will be given to students who display proficiency in special subjects. The "Rogers" prize of the value of about Rs. 20 shall be given annually in books to the silver medallist of the year.

60. During the practical course subsistence allowances of Rs. 30 per mensem for Europeans and Eurasians, and Rs. 20 for Indians shall ordinarily be granted; but these amounts shall be increased to Rs. 40 and Rs. 30 per mensem respectively in the case of students posted to hill stations. The grant of subsistence allowance shall be contingent on the good conduct and satisfactory progress of the student; and on proof of misconduct or idleness the allowance may be withdrawn by the Principal on the recommendation of the Executive Engineer. Travelling allowances to students joining or on the works will be drawn at the rates sanctioned for officers of the third class under the Civil Service Regulations.

(iii) *Lower Subordinate Class.*

61. Two scholarships of the monthly value of Rs. 8 each will be awarded annually in each of the three class-divisions. At the commencement of the first year of study the scholarships will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the monthly value of Rs. 8 will be awarded annually in each of the three class-divisions by the Director of Public Instruction on the recommendation of the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan, or Indian Christian, or a European or Eurasian, in the order named. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

62. A bronze medal will be awarded to the student who passes first at the final examination.

Special Prizes.

63. Three "Sir Madhava Rau" prizes of the value of Rs. 20 each will be given annually, under certain prescribed conditions, for proficiency in practical work. In awarding one of these prizes preference will be given to the Mahratta Brahman who displays the greatest proficiency in workshop practice, practical surveying or practical chemistry, subject to the conditions specified in notification No. 49 published at page 409 of Part I of the *Fort St. George Gazette*, dated 17th June 1890.

(6) *Stipends in Workshops.*

64. Four stipends of the monthly value of Rs. 6 for the first year, Rs. 7 for the second year, and Rs. 8 for the third year will be awarded annually to young men who have passed the elementary technical examination in carpentry or blacksmith's work, and who join the College workshop to be trained as teachers in technical or industrial schools or in school workshops for manual training. The course shall extend over three years during which time the students shall be prepared for the highest technical examination in cabinet-making, or carpentry, or fitter's work. The students shall ordinarily work in the workshop for thirty-five hours per week and will be allowed one month's vacation and the ordinary authorized holidays. The stipends may be reduced or forfeited for misconduct, idleness or want of progress. The stipendiaries shall be required, if need be, to serve as teachers for two years, and to submit half-yearly reports as to how they are employed for three years after leaving the workshops.

Leave and Dismissal.

65. Students may obtain leave of absence by previous application to the Principal.

66. Scholarship-holders shall forfeit their scholarships during any period, however short, of absence without leave, and shall be further liable to have their scholarships withdrawn, if they absent themselves without leave for five consecutive working days.

67. In cases of severe illness certified to by a competent medical authority, sick leave with scholarship may be given by the Principal for a fortnight. If such leave is granted for a period exceeding a fortnight, the excess period shall be leave without allowances.

68. Any student who has obtained admission into the College by means of a false certificate or by false representations of any kind, or who has been found guilty of grave misconduct, shall be summarily dismissed; the fact of such dismissal and the reasons for it being at once reported to the Director.

69. Leave may be granted during the practical course for a period or aggregate of periods not exceeding one month per annum. Such leave shall not entail forfeiture of stipend, but any leave in excess of one month shall involve loss of stipend, and the practical course shall be extended by a period equal to the excess over one month per annum of the leave granted.

Board of Examiners.

70. All sessional and final examinations shall be conducted by a Board of Examiners, consisting of a President and two members appointed by Government on the recommendation of the Director of Public Instruction for a term of three years. The President and members shall ordinarily be engineers. Two members of the College professional staff shall be advisory members of the Board. When necessary, the Board may, with the sanction of Government, employ assistant examiners. The decision of the Board of Examiners in regard to the qualifications of any student appearing for examination shall be final. The names of all students declared by the Board to have passed a final examination shall be published in the *Fort St. George Gazette*. After completing the annual examinations, the Board shall submit a report to Government, through the Director of Public Instruction, summarising the results of the examinations. It may record in the report any observations of a general nature bearing on the working of the College, or make any suggestions it may consider expedient, provided such observations or suggestions arise naturally out of the examination work which the Board has to perform. The report shall be signed by the President and members of the Board.

Diplomas and Certificates.

71. *Engineer and Upper Subordinate Classes.*—On the completion of the course in the College, a provisional certificate signed by the Principal and the President of the Board of Examiners shall be issued showing that the candidate has passed the final examination. On the satisfactory completion of the practical course a diploma, signed by the Principal and the Director of Public Instruction, shall be issued, setting forth the qualifications of the student for employment as a Civil Engineer, a Mechanical Engineer, or as an Upper Subordinate Engineer.

72. A student who has passed the final examination of the upper subordinate class, and who elects not to proceed to the practical course shall be granted a certificate of qualification as a Lower Subordinate Engineer.

73. *Lower Subordinate Class.*—On the completion of the course, a certificate signed by the Principal and the President of the Board of Examiners shall be issued, stating that the student

has passed the final examination and is qualified for employment as a Lower Subordinate Engineer or as a Surveyor or a Draftsman.

Employment of Passed Students.

74. *Engineers.*—One appointment as apprentice engineer in the Public Works Department shall be conferred annually on the student who passes highest at the final examination. The apprenticeship shall commence on the 1st July following the final examination and shall ordinarily extend over twelve months, when the apprentice, provided he has fulfilled the conditions of paragraph 11, chapter II, volume I, Public Works Department Code, shall be brought on the permanent establishment of the Public Works Department, Provincial Service, as third-grade Assistant Engineer. Other Engineer students, who have satisfactorily completed the practical course, shall be eligible for appointment to the temporary Upper Subordinate establishment of the Public Works Department, whence transfers may be made to the permanent establishment to fill existing vacancies on the recommendation of Superintending Engineers. Fully qualified Engineer students may also be appointed Assistant Engineers under Local Boards.

75. *Upper Subordinate Engineers.*—One appointment annually as Overseer, third grade, in the permanent Upper Subordinate establishment of the Public Works Department shall be conferred on the civilian Upper Subordinate student who passes highest at the final examination, provided he has satisfactorily completed his practical course and provided a vacancy exists for such appointment. Other civilian Upper Subordinate students, who have satisfactorily completed the practical course and for whom there are vacancies, shall be eligible for appointment to the temporary Upper Subordinate and Lower Subordinate establishments of the Public Works Department, whence transfers may be made to the permanent Upper Subordinate establishment to fill existing vacancies on the recommendation of Superintending Engineers. No person will be eligible for appointment to the permanent Upper Subordinate establishment unless he be a fully qualified Engineer or Upper Subordinate Engineer. Appointments as Delta Superintendent, Minor Irrigation Overseer and as Overseer to District Boards and Municipalities are also open to qualified Upper Subordinate Engineers.

Military apprentices required for the Public Works Department will be appointed first-grade Overseers under rule 47 of these rules. In alternate years, one appointment to the Engineer establishment, Provincial Service, will be offered to a senior selected Upper Subordinate of the Public Works Department.

76. *Lower Subordinate Engineers.*—Qualified Lower Subordinate Engineers will be appointed to the Public Works Department as Sub-Overseers and as Draftsmen as vacancies occur. They will be eligible also for employment as Channel Superintendent in the Public Works Department and as Deputy Surveyor in the Survey Department. When the services of temporary men are required for special surveys not undertaken by the Public Works subordinate staff, the Public Works officers in charge are instructed to select for such employment none but qualified Lower Subordinates of the College.

77. Students of the Engineer and Upper Subordinate classes who pass sufficiently high to merit the appointments referred to in rules 74 and 75 shall, before appointment, produce certificates of physical fitness for the work of the Public Works Department. The medical examination for such certificates shall be held at the end of the practical course. Other qualified students will, on appointment to the Public Works Department, be required to produce certificates of physical fitness under the ordinary rules of the public service.

78. The appointments referred to in rules 74 and 75 are reserved for statutory natives of India, provided that natives of pure Asiatic descent shall be admitted only if their parents or guardians are domiciled in the Madras Presidency or the States of Travancore, Cochin, Pudukkottai, Sandur, Banganapalle and Mysore.

79. It shall be the duty of the Principal to render all reasonable assistance to passed students who may not be appointed to the Public Works Department, in seeking employment under Local Boards and Municipalities and other agencies. With this object lists of qualified men, with remarks as to their attainments, conduct, etc., shall be circulated annually to Local Boards and Municipalities, with recommendations that they may be employed in suitable posts when opportunities offer, and the attention of these local authorities shall be invited to G.O., No. 2773 L., dated 12th December 1893.

Casual Students.

80. Applicants who possess sufficient general education to follow the instruction given, who produce certificates of good health and good character, and who make the prescribed deposit and pay the prescribed fees, may be admitted as casual students to the Engineer class, provided that accommodation is available for them. They may present themselves for the sessional and final examinations, and if they pass they will receive the provisional certificates issued to successful students at the end of the College course; but they shall not be eligible for the appointments referred in rules 74 and 75 or for scholarships or prizes, or for the free practical course.

Registers and Accounts.

81. The following registers shall be kept:—

(1) Register of admissions and withdrawals for each class.

(2) Monthly register of attendance, fees and fines for each class.

(3) Acquittance roll and pay abstract.
(4) Library catalogue and register and inventory of valuable stock.
(5) Register of scholarships.
(6) Register of expenditure on contingencies.

82. The register of valuable stock shall be scrutinised every year, the work being entrusted in rotation to one of the senior members of the staff, who shall certify to the correctness of the stock and the entries in the register.

MISCELLANEOUS.

83. The practical course will extend over a complete year, and this period will be reckoned from the dates on which the students join their divisions. Students during their practical course shall not be under the supervision of the Principal, but officers under whom such students are serving will be required in the Public Works Department to furnish to the Principal half-yearly reports of their progress in such form as may from time to time be prescribed by Government. All allowances during the practical course shall be debited to the Public Works Department.

84. The provisions of the Educational Rules relating to accommodation and sanitation, discipline, dress, periodical examinations and punishments shall apply *mutatis mutandis* to the College, in so far as its special character permits of their application.

85. The Principal shall invariably obtain the previous sanction of the Director for any deviation from the prescribed rules.

86. The Principal shall submit a time-table annually for the approval of the Director. No material change shall be made in the time-table or in the general arrangement of the College work without his sanction.

18. The proposed rule 9 runs—

"9. The Gazetted holidays for Christmas and Easter "enjoyed, and the casual holidays allowed by Chapter VI "Educational Rules shall apply as far as the special character "College may permit."

(Fifth Edition.)

19. This rule embodies the latter of the existing rule 78 and rule 79 are—

"78. The College shall be closed for the midsummer vacation "the 1st May to the first Monday in July and for the Christmas va "from 23rd December to 17th January.

"79. The casual holidays allowed in chapter II of the Educa "Rules shall apply to this College in so far as its special character "allow."

C. A. SOUTER—7-3-07.
Better add also after "Eduational Rules" the words "(Fifth Edition)."
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

20. The verbal alterations made and the substitution of Chapter VII for Chapter II of the Educational Rules, seem to be necessary.

21. The proposed rule 10 runs—

"10. The first and second terms together constitute a College "Session."

C. A. SOUTER—7-3-07.
H. D. TAYLOR—12-3-07.
G. S. F[ORBES].

22. This rule is new, but appears unobjectionable.

23. The proposed rule 11 says—

Classes.

"11. The College shall contain the following classes:—

"(i) *Engineer class*—for the training of (*a*) civil engineers, and (*b*) "mechanical engineers.

"(ii) *Upper Subordinate class*—for the training of upper subordi- "nates for the Public Works department, Revenue department, local "boards and municipalities.

"(iii) *Lower Subordinate class*—for the training of lower subordi- "nates, surveyors and draftsmen for the Public Works department, the "Survey department, Revenue department, local boards, municipalities, "railways, etc."

24. This replaces rules 8 and 9 of the existing rules which run—

"8. The college shall contain the following classes:—.

"(i) *Engineer class*—for the training of civil and mechanical engi- "neers.

"(ii) *Engineer Subordinate class*—for the training of upper subordi- "nates for the Public Works department, the local boards and munici- "palities

"(iii) *Sub-Overseer and Surveyor class*—for the training of lower "subordinates and surveyors for the Public Works department, the "Survey department, local boards and municipalities.

"(iv) *Draftsman class*—for the training of mechanical draftsmen "and estimators.

"9. The engineer and engineer subordinate classes constitute the "college department, and the other classes the school department."

It may stand.
C. A. SOUTER—7-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

25. The proposed rule is in accordance with the recommendations of the Committee in regard to the reorganization of the College classes approved in paragraph 8 of G.O., No. 655, Educational, dated 3rd October 1905.

Courses of Instruction—(i) Engineer class.

26. The proposed rule 12 runs—

"[NOTE. A revised course for the Engineer class will be published later. For the "present, pending the construction of new laboratories and work shops, the course will "be as follows :

"12. The course of instruction shall extend over four years, of "which three shall be spent in the College and the fourth chiefly on "works. The course in the College shall be both theoretical and practi-"cal. Theoretical instruction shall be conveyed by lectures; while the "practical work shall consist of surveying in the field, drawing, and "work in the workshops and laboratories. Marks for practical work "shall be assigned by the College Staff, and these marks shall count "towards the final total. Students who desire to become Civil Engineers "shall spend the final year in a Public Works division ; those who wish "to become Mechanical Engineers shall spend it in an engineering "workshop."

27. This is the same as the existing rule 10 with the omission of the last sentence of the latter rule "Students shall "receive lessons in riding during the prac-"tical course" which has been relegated to the end of the proposed rule No. 17. The Principal states that "it will not be "possible to adopt the new courses sanc-"tioned (in G.O., No 655, Educational, "dated 3rd October 1905), for the Engi-"neer class until new laboratories and "workshops have been provided. In the "meantime the existing course is adhered "to with such modifications based on the "spirit of the Committee's recommend-"ations as can be conveniently introduced "at once." The rule as proposed may be accepted.

C. A. SOUTER—7-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES.]

28. The revised rule 13 runs—

"13. The subjects of study and the marks assigned to each shall "be as follows :—

"*Branch I.—Mathematics and Science.*

		Marks.
"Algebra (150), geometry (200), mensuration (150), plane trigonometry (150), calculus (250), mechanics (300), hydro-mechanics (200), heat (200), chemistry (300)		1,900
"*Branch II.—Engineering.*		
"1. Drawing—Geometrical and Perspective (120), freehand and model (80), machine (200), building (300), estimating (200), practical work (300) ..	1,200	
"2. Applied mechanics	400	
"3. Building materials	100	
"4. Do. construction	200	
"5. Hydraulic engineering	200	
"6. Mechanical do.	200	
"7. Workshop practice, etc.	400	1,500
"8. Surveying—Chain compass and plane table (150), level (150), theodolite (150), topographical drawing (200), practical work (350)	1,000	
		3,700
"*Physical Exercises*		400
		6,000"

29. The subjects of study marks assigned to each subje existing rule 11 are—

"I. *Mathematics.*—Algebra (75), geometry (100 "mensuration (75), plane trigonometry (75) "differential and integral calculus (125) ..	
"II. *Science.*—Physics (325), chemistry (100), prac-"tical work (75)	
"III. *Engineering.*—Building materials (50), building "construction (100), hydraulic engineering "(100), applied mechanics (150), mechanism "and the steam-engine (100), practical work "(200)	
"IV. *Drawing.*—Geometrical and perspective drawing "(60), freehand and model drawing (40), "building drawing (150), machine drawing "(100), estimating (100), practical work "(150)	600
"V. *Surveying.*—Surveying (75), levelling (75), theo-"dolite (75), topographical drawing (100), "practical work (175)	50
"VI. *Vernacular Language.*—Tamil or Telugu ..	15
"VII. *Physical Fitness*—Gymnastics and drill ..	10
Total ..	3,000

G.O., 655, Educational, dated 3rd October 1905.

In G.O., 655, Educational, dated 3rd October 1905.

Page 4 of G.O., 655, Educational, dated 3rd October 1905.

Vide Principal's remarks on page 5 of the tabular statement.

The new courses are practically the same as the old with a little more specification and the omission of the language course. They are in accordance with orders. The rule may stand.

C. A. SOUTER—7-3-07.

H. D. TAYLOR—13-3-07.

There is certainly a practical advantage in having language classes at the College. The students have to qualify and pass if they are to join the public service. But the matter may be considered later as there is no time to do so now.

G. S. F[ORBES]—14-3-07.

Note this.

H. D. TAYLOR.

Noted.

K. RANGASWAMI AIYANGAR—17-3-07.

30. Pending the construction of new laboratories and workshops, the new courses sanctioned by Government for the Engineer class could not be adopted. The courses now proposed are mostly in accordance with the spirit of the Committee's recommendations. The vernacular language as a subject of study has now been cut out with reference to paragraph 10 of the Committee's first report and the marks hitherto allotted to it have been distributed between Applied mechanics and Physical exercises—"two subjects which need encouragement." "The whole of the marks of the Engineer class have been doubled so as to make the total compare suitably with the totals for the Upper Subordinate and Lower Subordinate classes. The subjects moreover have been regrouped on the lines recommended by the Committee for those classes."

31. The revised rule may be accepted.

32. Revised rule 14 runs—

"14. Of the total marks, 4,400 shall be awarded by the Board of "Examiners for examination work, and 1,600 by the College staff for "practical work and physical exercises. Sessional examinations shall be "held at the end of the first and second years, at which portions of the "above subject shall be finally disposed of by the Board of Examiners. "The marks awarded at these examinations shall be included in the final "total. All students must satisfy the Principal of the College in "practical surveying."

33. This rule corresponds to existing rule 12 which says—

"12. Of the total marks, 2,300 shall be awarded by the Board of "Examiners for examination work, and 700 by the College staff for "practical work and physical fitness. The marks given by the College "staff shall, however, be submitted to the Board for approval. Term "examination shall be held at the end of the first and second years, "at which, portions of the above subjects shall be finally disposed of by "the Board of Examiners. The marks awarded at these examinations "shall be included in the final total."

I submit that the rule is best as it stands. The staff should have a free hand in granting marks for their own examinations and they must be presumed honest. The teachers can give marks for general good work during the term, and their knowledge of the character and studiousness of the scholars ought to bear on the assignment of marks. The Board cannot be expected to know of these matters.

C. A. SOUTER—7-3-07.

Yes. The Principal must be trusted to see that his professors, etc., mark honestly.

G. S. F[ORBES]—1-4-07.

34. The maximum number of marks to be awarded by the Board of Examiners and by the College staff has been increased with reference to the increase in the total number of marks made in proposed rule 13. The revised rule omits the provision in the existing rule that the marks given by the College staff shall be submitted to the Board for approval. The College staff must no doubt be trusted to know the merits of the students, but the check provided by the existing rule seems to be unobjectionable.

35. The provision in this rule that "all students must satisfy the Principal of the College in practical surveying has been put in here from the existing rule 13.

36. Revised rule 15 runs—

"15. In order to pass an examination, a student must obtain half "the aggregate marks awardable at that examination and any previous "sessional examination. A student who fails to obtain qualifying "marks at a sessional or final examination shall not be promoted or "pass out, but must either leave the college or join the class division "next below his own. Such students shall be ineligible for scholarships, "prizes or guaranteed appointments. No student shall be permitted "to remain more than four years in the college. Students who obtain "not less than two-thirds of the total marks shall be declared to have "passed with honours, and all other successful students to have "passed."

37. This corresponds to existing rule 13 which says—

"13. In order to pass the examination, students must obtain one-"third of the marks assigned to each of the four subjects, namely, "(1) mathematics, (2) engineering, (3) drawing and (4) surveying, "one-fourth of the marks assigned to science, and one-half of the total "marks awarded by the Board of Examiners and the College staff "separately. They must also satisfy the Principal of the College in "practical surveying. Students who obtain not less than three-fourths "of the total marks shall be declared to have passed in the first class, "and all other successful students in the second class. Students shall "be expected to present themselves for the first examination in engi-"neering of the Madras University at the end of their second year of "study, and for the B.E. degree examination at the end of their third "year."

1. Mathematics	.. ..	$\frac{1}{3}$
2 Engineering	.. ..	
3. Drawing	.. ..	
4. Surveying	.. ..	
5. Science ..	.. ..	$\frac{1}{4}$

I cannot understand the draft rules with any certainty. In order to pass AN examination half the aggregate marks awardable at THAT examination and ANY previous sessional examination must be gained, *e.g.*, at the sessional examination (I presume the immediately preceding one) the total marks are 600; at the examination to be taken they are 300. In the former the student gets 400; in the latter 50 would apparently suffice because 400 + 50 = ½ (600 + 300). So far clear enough. But the rule goes on to talk of "qualifying" marks at sessional or final examinations. I cannot understand the word "qualifying" because on the principle of "half the aggregate" the qualifying number must vary with each examination, *e.g.*, in the previous case A in the first examination gets 400, B 300. Then in the second examination, A's "qualifying" number is 50, B's 150; or A gets only 200 and B 300. A's "qualifying" number will then be 250 and B's 150 in the second examination. The rule seems to me badly drafted and the Director of Public Instruction may perhaps be asked to explain or redraft it.

Please see paragraph 2 of the Director of Public Instruction's letter in the current below with Colonel Love's note.

C. A. SOUTER—8-3-07.

I see no great difficulty in the use of the word "qulifying" which refers separately to each examination according to the maximum marks for that examination. The real point is that the qualifying minima are now fixed on the total marks of each examination and no separate minimum is provided in any special subject. The certificate of the Principal as to survey is necessary. A separate minimum of 33 per cent. might be assigned for (*a*) Mathematics, (*b*) Engineering and (*c*) Drawing—*vide* rule 13. The Board must accept the marks awarded by the college staff. There has been a tendency in the past for individual students to appeal to the Board against the marks awarded by the staff, when they have failed to reach the required maximum by one or two marks. Such an appeal should not, I think, be allowed. There must be a direct incentive to good work during practical study, and only the college staff can adequately judge the merits of the candidates in this regard. The marks awarded by the staff should be final and not subject to revision by the Board.

Yes.
G. S. F[ORBES.]

See marginal note above
G. S. F[ORBES.]

G. S. F[ORBES.]

H. D. TAYLOR—13-3-07.

38. The existing rule prescribes a minimum in the five subjects noted in the margin in order to make a student eligible for a pass and also a minimum of one-half of the total marks awarded by the Board of Examiners and the College staff separately.

39. But under the proposed rule no minimum is required in any of the individual subjects and in order to secure a pass in an examination it is enough if a student obtains "half the aggregate marks awardable at that examination and in any previous sessional examination".

40. Under the existing rule the failure or success of a student is determined only after the final examination on the completion of the third year of his College course and the aggregate marks obtained by him at all the examinations taken together were considered in determining his success or failure. According to the revised rule, however, the student has to obtain the qualifying minimum of marks at each of the sessional examinations, and in the event of his failing to do so, he is required to join the class division next below his own. It is also provided that such students are ineligible for scholarships, prizes or guaranteed appointments. At the same time the maximum period for which a student may remain in the College has been fixed at four years.

41. Again, under the existing rule a student must obtain three-fourths of the total number of marks to secure a pass in the first class, but the proposed rule requires only two-thirds of the total number of marks for a pass with honours.

42. The above modifications seem to be desirable and may be accepted.

I see no objection to allowing 66 per cent. of the total marks to qualify for honours as against 75 per cent. at present.

Very well.
G. S. F[ORBES.]

H. D. TAYLOR.

43. The revised rule 16 runs—

"16. Students shall be expected to present themselves for the first "examination in engineering of the Madras University at the end of "their second year of study, and for the B.E. degree examination "towards the end of their practical course."

44. This rule corresponds to the last sentence of the existing rule 13 with the modification that students are required to appear for the B.E. degree examination *towards* the end of their practical course instead of *at* the end of their third year as required by the existing rule.

45. In paragraph 8 (2) of its report disposed of in G.O., No. 655, Educational, dated 3rd October 1905, the Committee recommended that "no student should be "allowed to appear for any degree examination until he had completed his practical course satisfactorily."

46. The proposed rule 16 slightly modifies the Committee's proposal and permits the student to appear for the B.E. degree examination *towards* the end of the practical course. The reasons for this modification, as given by the Principal, are—

"Under the University by laws "student can present himself after three "years of study. The Committee think he "should not appear till he has completed "his practical course. The practical "course will commence about the 1st "July; while the B.E. degree examination "will be held in April. It is considered "that candidates should be encouraged to "present themselves in March during "their practical course, *i.e.*, nearly four "years subsequent to entrance to the "college."

The rule may stand.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

47. Revised rule 17 runs—

"17. Students who are successful at the college final examination "shall proceed to the practical course. Those who elect to become "Civil Engineers shall be attached to a Public Works division where "large works are in progress and will be regularly instructed in the "preparation of materials, the practical details of construction, the "management of labour, and the system of accounts. Those who elect "to become Mechanical Engineers will proceed to the Public Works "Workshops. One mechanical engineer student will be permitted each "year to join the Madras Railway Locomotive shops at Perambúr, the "concession being offered in the order of merit at the final examination. "The premium will be Rs. 500, of which half will be defrayed by "the Educational department, the other half being met by student. "The premium will cover a course of two years, of which one year is "obligatory. Other mechanical engineer students may attend a "Perambúr on payment of the full premium. All students shall receiv "lessons in riding during the practical course."

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 159, EDUCATIONAL, DATED 20TH MARCH 1907.

[SUBJECT.—*Revised rules relating to the constitution and working of the College of Engineering, Madras.*]

Previous papers.

G.O., No.	397, *Educational, dated*	2*nd*	*June*	1890.
,, ,,	2773 *L.*,	,,	12*th*	*December*	1893.
,, ,,	723, *Educational*,	,,	12*th*	,,	1904.
,, ,,	754 ,,	,,	21*st*	,,	,,
,, ,,	655 ,,	,,	3*rd*	*October*	1906.
,, ,,	657 ,,	,,	10*th*	,,	,,
,, ,,	841 ,,	,,	27*th*	*December*	,,
D.O. ,,	401-1 ,,	,,	23*rd*	*February*	1907.

From the Director of Public Instruction, dated 13th February 1907, No. 7765/06.

The proposed rule 1 runs—

Object.

"1. The college, which is affiliated to the Madras University, "affords theoretical and practical instruction in subjects qualifying for "the professions and callings of civil engineer, mechanical engineer, "upper subordinate engineer, lower subordinate engineer, surveyor and "draftsman, in view of fitting persons for employment in such capacities by Government, by local boards and municipalities, and by other "agencies."

2. The existing rule 1 says—

"1. The college, which is affiliated to the Madras University, "affords theoretical and practical instruction in subjects qualifying for "the profession and callings of engineer, engineer subordinate, surveyor and draftsman, in view of fitting persons for employment in such "capacities by Government, by local boards and municipalities, and by "other agencies."

Paragraphs 12 and 14 on page 5 of G.O., 655, Educational, dated 3rd October 1905

3. This rule has been altered with reference to the recommendations of the Committee in regard to the bifurcation of the Civil and Mechanical Courses of the Engineer class and to the alteration in designation of the "Engineer Subordinate class" into "Upper Subordinate class" and of the sub-overseer and surveyor and draftsman classes which are to be amalgamated as one into "Lower subordinate class". It does not, however, appear that the word "Engineer" occurring after "Upper Subordinate" and "Lower Subordinate" in the revised rule is necessary.

It may stand. All are Engineers of sorts.

C. A. SOUTER—7-3-07.
H. D. TAYLOR—12-3-07.
G. S. F[ORBES.]

4. The proposed rule 2 runs—

"2. Students of the higher course in engineering are, at the same "time, prepared for the B.E. degree examination of the Madras "University."

Page 2 of the tabular statement.

C. A. SOUTER—7-3-07.
H. D. TAYLOR—12-3-07.
G. S. F[ORBES].

5. This is the same as the existing rule 2 and calls for no remarks.

6. The proposed rule 3 runs—

Control.

"3. The responsibility for the discipline and management of the "College is vested in the Principal, under the control of the Director of "Public Instruction."

Page 2 of the tabular statement.

C. A. SOUTER—7-3-07.
H. D. TAYLOR 12-3-07.
G. S F[ORBES].

7. This is the same as existing rule 3.

8. The proposed rule 4 runs—

Board of Visitors.

Insert "for the present" after "shall" G. S. F[ORBES].

"4. A Board of Visitors, consisting of a President and three members, shall be constituted to advise the Director of Public Instruction "and the Government. The Board shall be composed as follows:—
"*President.*—The Chief Engineer, Public Works Department.
"*Members.*—The Chief Engineer, Madras Railway Company.
"The Chief Engineer, Madras Port Trust.
"The President of the Faculty of Engineering of the "Madras University, or a member of the Faculty to "be nominated by the Syndicate if the President is "the Chief Engineer, Public Works Department, or "is the Principal of the College.
"*Secretary.*— The Principal of the College."

C. A. SOUTER—7-3-07.
H. D. TAYLOR—12-3-07.
G. S. F[ORBES].

9. This rule is new. The above constitution of the Board of Visitors was approved in paragraph 12 of G.O., No. 657, Educational, dated 10th October 1906.

10. The proposed rules 5 and 6 run—

Staff.

"5. The staff shall consist of a Principal, two Professors of Engineering, a Professor of Mathematics and Science, and an adequate "number of lecturers and demonstrators. There shall also be a workshop instructor with foremen assistants, and an instructor in drill and "gymnastics. Special lecturers may also, when necessary, be employed "with the sanction of Government.

Omit 6—redundant and unsettled. G. S. F[ORBES]. Make consequential alteration please. H. D. TAYLOR.

"6. The Principal and Professors of Engineering shall be Engineers, "civil or military, and the Professor of Mathematics and Science shall be "preferably an Engineer.

11. These rules replace rules 4 to 7 of the existing rules which are—

"4. The staff shall consist of a Principal, a Professor of Civil "Engineering, a Professor of Mechanical Engineering, a professor of "Mathematics, an instructor in surveying and drawing, an instructor in "civil engineering, an instructor in mechanical engineering, and eight "assistants. There shall also be a workshop instructor with foremen "assistants and an instructor in gymnastics.

"5. Special lecturers may also, when necessary, be employed with "the sanction of Government.

"6. The Principal shall be an Engineer civil or military.

"7. The Professor of Civil Engineering shall be a third-grade "Executive Engineer or first-grade Assistant Engineer of the Public "Works Department, the Professor of Mechanical Engineering shall be "an officer of the Indian Educational Service and the Professor of Mathe-"matics shall be an officer either of that service or of the Provincial "Educational Service."

Vide page 3 of tabular statement.

12. The principal of the College observes as follows with reference to the proposed rules 5 and 6:—

have Page 6 of G.O., No. 655, Educational, dated 3rd October 1905.

"The Government has not yet dealt with the question of staff "and the modes of recruitment. The Committee, however (First report, "paragraph 16), recommend that the Professor of Mathematics should be "an Engineer. The greater possibility there is of the professors exchang-"ing work with one another the more convenient it will be for the College. "Interchange will be facilitated if all the professors are engineers, and "the teaching of mathematics will become more practical and less acade-"mical. In the absence of a Professor of Science, the science teaching "must be undertaken by one or more of the professors. As the time "spent on mathematics will be small as compared with engineering, it is "proposed that one of the professors be called Professor of Mathematics "and Science.

"The assistants to the professors are now termed chief instructors and "assistant instructors. The term instructor seems open to objection "except in regard to the persons in charge of the workshops and of the "training in gymnastics. It is proposed to substitute lecturers and "demonstrators respectively in accordance with English practice. The "actual number of lecturers and demonstrators is not specified as the "present number is likely to need modification in the near future."

Paragraph 11 of G.O., No. 655, Educational, dated 3rd October 1905.

13. In paragraph 16 of its report on page 6 of G.O., No. 655, Educational, dated 3rd October 1905, the Committee expressed the opinion that the staff of the College should be recruited from the Public Works establishment and that the administration should be in the hands of the Chief Engineer who would, however, be subordinate as regards general policy to the Director of Public Instruction, but independent in all other matters. They also suggested that the Professor of Mathematics should be an Engineer. The Chief Engineer was entirely opposed to these proposals and considered that the College should remain under the Educational Department and that the superior staff be recruited from Home and from the Educational Department, the Public Works Department being indented upon for temporary vacancies only. The Government agreeing with the Chief Engineer requested the Committee to reconsider the matter. Thereupon the Committee stated that they would not press the point as to the administration of the College which might be left in the hands of the Educational Department, but that the staff should be recruited from the Public Works Department, the cadre of the Public Works Department being increased if necessary so as to provide for the same. The Government were then disposed to recommend that the recruitment of the entire staff, both professorial and subordinate, should be from the Public Works Department. This matter is separately under consideration. Pending the issue of final orders on these proposals, the revised rules may be accepted.

Do. do.

Paragraph 11 of G.O., No. 655, Educational, dated 3rd October 1905.
Vide paragraph 11 of the Committee's report on page 4 of G.O., No. 657, Educational, dated 10th October 1906.

Paragraph 11 of G.O., No. 657, Educational, dated 10th October 1906.

Please see K.W. G.O., No. 657, Educational, dated 10th October 1906, on pages 15—21 and 26 at foot. Also K.W. G.O., No. 655, Educational, dated 3rd October 1905, at pages 25 and 26. From these papers it will be seen that the opinions of Honourable Members are very divergent as to the proper mode of recruitment of the staff. However, the proposed rules 5 and 6 do not deal with this matter which will be separately considered In rule 5 the words "and an adequate number of lecturers and demonstrators" are very vague, but, I submit, may stand for the present. If and when the College is finally removed to Saidapet the staff required (and its recruitment) can be definitely settled and the rule may then, if necessary, be made more definite.

C. A Souter—7-3-07.

I see no objection to the rules. If any alteration is made the words "an adequate number" may be replaced by the words "such number of lecturers and demonstrators as the Government may from time to time approve.

H. D. Taylor—12-3-07

Let it stand.

G. S. F[orbes].

14. The proposed rule 7 runs—

College year vacations and holidays.

"7. The College year shall consist of—

"(*a*) a first term extending from about the 15th July to about "the 10th October. The last ten days of the term shall be devoted to "inspection tours.

"(*b*) a second term extending from about the 11th October to "about the end of April. A survey camp lasting about a month shall "be formed immediately after the Christmas holidays.

"(*c*) a vacation extending from about the 1st May to about the "14th July∧."

Add—
∧ as may be notified by Government.
G. S. F[orbes].

15. This rule is new and has been based on the recommendations of the Committee approved in paragraph 4 of G.O., No. 657, Educational, dated 10th October 1906. The date of commencement of the second term has, however, been altered in the proposed rule from 10th October to 11th October and that of termination of the long vacation from 15th July to 14th July. The proposed rule may be accepted.

Necessarily.

C. A. Souter—7-3-07.

H. D. Taylor—12-3-07.

16. The proposed rule 8 runs—

"8. When any of the above∧ dates fall on a Saturday or Sunday "they may be varied at the discretion of the Principal to an extent "not exceeding two days."

Am.
G. S. F[orbes.]

This rule does not take into account other public holidays, but perhaps there is no need to refer to them. The rule may stand.

C. A. Souter—7-3-07.

Yes. A Saturday or Sunday would make two days' difference. A public holiday unless falling on a Monday or Friday would make a difference of one day only.

H. D. Taylor—12-3-07.

The variation should apply only to term dates. Vacations should be notified I think?

G. S. F[orbes].

Yes.

H. D. Taylor.

17. This rule is ancillary to rule 7 and may be approved.

48. This
rule 14 with
option given
students of spe
of their practical cou
workshops has been take

The revised rule may stand. The practical training in the outside workshops is likely to be more thorough than in the college and there seems no need for the student to return to the college workshops.

C. A. Souter—8-3-07.
H. D. Taylor—13-3-07.
G. S. F[orbes].

49. Revised rule 18 runs—

(ii) *Upper Secondary class.*

"18. The course of instruction shall extend over four years, "three shall be spent in the college and the fourth on work "course in the college shall be both theoretical and practical. "tical instruction shall be conveyed by lectures, while the pra "work shall consist of surveying in the field, drawing, and work i "workshops. Marks for practical work shall be assigned by the Col "Staff, and these marks shall count towards the final total."

50. This is similar to existing r but the course of instruction h extended to four years—three years spent in the college and the fourth works, instead of $2\frac{1}{2}$ years and one yea respectively, under the existing rule This is in accordance with the Committee's recommendation in paragraph 12 of its report on page 5 of G.O., No. 655 Educational, dated 3rd October 1905.

It may stand.

C. A. Souter—8-3-07.
H. D. Taylor—13-3-07.
G. S. F[orbes].

51. Revised rule 19 runs—

"19. The subjects of study and the marks assigned to each shall "be as follow :—

"*Branch I.—Mathematics.*

	Marks.	Marks.
"1. Arithmetic (150), 2. Algebra (150), 3. "Geometry (150), 4. Mensuration (150), "5. Plane Trigonometry (150) ..	750	
Branch II.—Engineering.		
"1. Drawing.—Freehand and model drawing "(100), geometrical drawing (300), "machine drawing (150), building "drawing and estimating (550) ..	1,100	
"2. Applied mechanics	600	
"3. Construction	500	
"4. Hydraulic Engineering	400	
"5. Mechanical Engineering	300	
"6. Surveying.—Surveying with chain, "compass and plane table (250), Level- "ling (250), Theodolite Surveying (250)	750	
		3,650
"*Workshop practice*		300
"*Physical Exercises*		300
		5,000"

52. This corresponds to existing rule 16 which says—

"16. The subjects of study and the marks assigned to each shall be as follows:—

	Marks.
"I. *Mathematics.*—Arithmetic (50), Algebra (80), "Geometry (50), Mensuration (80), Plane "Trigonometry (90)	350
"II. *Engineering.*—Building materials (50), Build- "ing construction (100), Hydraulic engineer- "ing (100), Applied mechanics (125), "Mechanism and the steam engine (75), "practical work (150)	600
"III. *Drawing.*—Geometrical and perspective drawing "(40), freehand and model drawing (35), "building drawing (100), machine drawing "(75), estimating (75), practical work (125).	450
"IV. *Surveying.*—Surveying (75), levelling (75), theo- "dolite (50), topographical drawing (75), "practical work (125)	400
"V. *Vernacular Language.*—Tamil or Telugu ..	125
"VI. *Physical Fitness.*—Gymnastics and drill ..	75
Total ..	2,000"

53. The syllabus has been altered in accordance with the Committee's recommendations. But the total number of marks proposed by the Committee has been raised in the proposed rule from 4,500 to 5,000 and the marks assigned by the Committee to the several subjects have also been rearranged. On this point the Principal observes—

"Workshop practice has been omitted "altogether, and the allotment for drawing "is absurdly inadequate. That for "physical exercises is also too low. If "exercises are to be encouraged, and the "desirableness of encouraging them among "students destined for an active out-door "employment can admit of no doubt, more "marks must be given. The present "allotment is notoriously insufficient, and "the Committee's is even lower. As "rearrangement of the general scheme of "marks is obviously called for, advantage "has been taken of the opportunity to "work up to a round total of 5,000, instead "of the 4,500 adopted by the Committee."

The rule may stand.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES.]

54. Revised rule 20 runs—

"20. Of the total marks, 3,200 shall be awarded by the Board of "Examiners for examination work, and 1,800 by the College Staff for "practical work and physical exercises. A sessional examination shall "be held at the end of each year at which portions of the above "subjects shall be finally disposed of. The marks awarded at these "examinations shall be included in the final total. All students must "satisfy the Principal of the College in practical surveying."

55. This is an adaptation of rule 17 with the consequential alterations necessitated by the revision of the total number of marks made in proposed rule 19. As

The rule may, for the reasons given on page 7 above, stand.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES.]

in the proposed rule
existing rule 17 requi
the Board of Examine
given by the College staff
Attention is solicited to th
this point under proposed rule

56. Proposed rule 21 run

"21. In order to pass an examination a stude must
"the aggregate marks awardable at that examination and any
"sessional examination. A student who fails to obtain qualifyi
"at a sessional or final examination shall not be promoted or p
"but must either leave the College or join the class division next
"his own. Such students shall be ineligible for scholarships, pr
"guaranteed appointments. No student will be permitted to r
"more than four years in the College. Students who obtain n
"than two-thirds of the total marks shall be declared to have passe
"honours, and all other successful students to have passed."

Please see the note on pages 8 and 9 above.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07.
See *ante*.
G. S. F[ORBES].

57. This corresponds to existing ru
18. The remarks made under revise
rule 15 regarding subject minima and
sessional examinations apply to this rule
also.

58. Proposed rule 22 runs—

"22. Students who are successful at the final examination shall b
"attached for one year to Public Works divisions where large wo
"are in progress, and shall be regularly instructed in the preparatio
"of materials, the practical details of construction, the management o
"labour, and the system of accounts. They shall receive lessons in
"riding during the practical course."

It may stand.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

59. This is the same as the existing rule 19 and the last sentence of existing rule 15.

60. Proposed rule 23 runs—

(iii) *Lower Subordinate class.*

"23. The course of instruction shall extend over three years. The- "oretical instruction shall be conveyed by lectures, while the practical "work shall consist of surveying in the field, drawing, and work in the "workshops. Marks for practical work shall be assigned by the College "Staff, and these marks shall count towards the final total."

The rule may stand.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07
G. S. F[ORBES].

61. The present sub-overseer, surveyor and draftsman classes are to be thrown together into a new class to be called the "Lower Subordinate class" in accordance with the recommendations of the Committee approved in paragraph 8 of G.O., No. 655, Educational, dated 3rd October 1905. The course of instruction for this new class has been fixed at three years instead of at two years for the existing sub-overseer and surveyor and draftsman classes. This is also in accordance with the Committee's recommendation.

62. Proposed rule 24 runs—

"24. The subjects of study and the marks assigned to each shall be "as follows:—

	Marks.
"1. Drawing.—Freehand and model drawing "(200), Geometrical drawing (300), Machine "drawing (250), Building drawing and esti- "mating (600)	1,350
"2. Applied Mechanics	400
"3. Construction	550
"4. Surveying.—Surveying with chain, compass "and plane table (400), levelling (400), "theodolite surveying (400)	1,200
"*Workshop Practice*	250
"*Physical Exercises*	250
Total ...	4,000"

63. This replaces existing rules 21 and 25. The syllabus is in accordance with the Committee's recommendation. But the distribution of marks among subjects has been modified by the Principal who observes:—

"The Committee's scheme of mark "distribution (First Report) is incomplete "and not sufficiently detailed. A divi- "sion by subjects only is needed, not by "years as supplied by the Committee. "Drawing, other than geometrical draw- "ing, is presumably included by the "Committee under engineering. The "allotment under physical exercises is "far too low. The total worked up to is "the inconvenient one of 7,900 which "compares badly with the Committee's "total of only 4,500 for the next higher "class.

"In the draft rules a more complete "distribution has been framed, analogous "to that for the Upper Subordinate class, "and working up to a total of 4,000 "marks".

The principal's assignment may stand.

C. A. Souter—8-3-07.
H. D. Taylor—13-3-07.
G. S. F[orbes].

64. Proposed rule 25 runs—

"25. Of the total marks, 1,750 shall be awarded by the Board of "Examiners for examination work. and 2,250 by the College staff "for practical work and physical fitness. A sessional examination "shall be held at the end of each year at which portions of the above "subjects shall be finally disposed of. The marks awarded at these "examinations shall be included in the final total. All students must "satisfy the Principal of the College in practical surveying."

65. This rule replaces existing rules 22 and 26 with some alterations in the marks to be awarded by the Board of Examiners and the College staff, consequent on the change in the total number of marks.

66. It is, however, obse
under the existing rules
total number of marks
overseer and surveyor cl
fourth of those for the draft
to be assigned by the College
proposed rule assigns more than
cent. of the total number of marks
Lower Subordinate class to be award
the College staff. This seems
accordance with the spirit of the Com
tee's recommendation on page 21 of
No. 655, Educational, dated 3rd Oct
1905.

The rule may stand.

C. A. Souter—8-3-07.
H. D. Taylor—13-3-07.
G. S. F[orbes].

67. Proposed rule 26 runs—

"26. In order to pass an examination a student must obtain half the "aggregate marks awardable at that examination and any previous "sessional examination. A student who fails to obtain qualifying "marks at a sessional or final examination shall not be promoted or pass "out, but must either leave the College or join the class division next "below his own. Such students shall be ineligible for scholarships or "prizes. No student will be permitted to remain more than four years "in the College. Students who obtain not less than two-thirds of the "total marks shall be declared to have passed with honours, and all "other successful students to have passed."

68. This replaces existing rules 23 and 27 which are—

"23. In order to pass the examination, students must obtain one- "third of the marks assigned to each of the three subjects, namely, (1) "surveying, (2) engineering and (3) drawing, and one-half of the total "marks awarded by the Board of Examiners and the College staff "separately. They must also satisfy the Principal of the college in "practical surveying. Students who obtain not less than three-fourths "of the total marks shall be declared to have passed in the first class "and all other successful students in the second class.

"27. In order to pass the examination, students must obtain one- "third of the marks assigned to each of the four subjects, namely, (1) "geometrical, etc., drawing, (2) building construction and drawing, (3) "machine drawing and (4) estimating, and one-half of the total marks "awarded by the Board of Examiners and the College staff separately. "Students who obtain not less than three-fourths of the total marks "shall be declared to have passed in the first class and all other suc- "cessful candidates in the second class."

69. The remarks in regard to qualifying minima in sessional examinations under rule 15 *supra* apply to this rule also.

Please see pages 8 and 9 above.

C. A. Souter—8-3-07.
H. D. Taylor—13-3-07.
vide *Ante*.
G. S. F[orbes]—15-3-07.

70. Proposed rule 27 runs—

Strength of classes.

"27. The number of students to be admitted annually shall ordi- "narily be limited to 20 in the Engineer class, 30 in the Upper "Subordinate class and 60 in the Lower Subordinate class."

71. This rule corresponds to rule 28 of the existing rules. The number of students to be admitted to the Lower Subordinate class has been fixed at 60 as against a total of 70 for the present Sub-Overseer and Surveyor and Draftsman classes.

not find any reason for the reduction. present Sub-Overseer and Surveyor and ma[illegible] classes each contain 35. Still the may stand. It is not absolute.

C. A. SOUTER—8-3-07.

he word "ordinarily" will allow for depar-tures where necessary. Sixty is a sufficiently rge class.

H. D. TAYLOR—13-3-07.

Very well; but the limitation is unfortunate if it is likely to keep out students. As soon as any objection on this ground arises, the rule can be reconsidered.

G. S. F[ORBES]—15-3-07.

Let this be noted in the Government Order.

H. D. TAYLOR.

72. Proposed rule 28 runs—

Admissions and withdrawals.

"28. All applications for admission shall be submitted in "prescribed form."

73. This is existing rule 29.

May stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

74. Revised rule 29 runs—

"29. Admission shall be once a year, on the 15th July (unless that "date falls on a Saturday or Sunday, when the students shall join on "following Monday) for all classes."

75. This corresponds to existing rule 30 which says—

"30. Admissions shall be once a year:—(1) for the Engineer class "on the 20th January (unless that day falls on a Saturday or Sunday "when the students shall join on the following Monday), (2) for the "Engineer Subordinate class on the first Monday in July; and (3) "for the Sub-Overseer and Surveyor class, and for the Drafsman class "on the fourth Monday in January."

The rule may stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

76. The alteration in the date of admission is consequential on the definition of college year given in proposed rule 7.

77. Proposed rule 30 runs—

"The Principal may refuse admission to any candidate whose "previous conduct has not been satisfactory. His order shall be "subject to appeal to the Director, whose decision shall be final."

18

May stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

78. This is existing rule

79. Proposed rule 31 runs—

"31. Withdrawals in the case of scholarship-holders shall, e "for good and sufficient reasons, be allowed only on completion of "course for which the scholarships have been awarded."

May stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

80. This is existing rule 32.

81. Proposed rule 32 runs—

Qualifications for admission—(i) Engineer class.

"32. Candidates must have passed the B.A. degree examination of "the Madras University with Mathematics or Physical Science (II-A) "as an optional subject, or an examination accepted by Government "as equivalent thereto, and must be under 22 years of age on the 30th "June of the year of admission. The number of candidates admitted "annually shall not ordinarily exceed twenty. If the number of "applicants exceeds twenty, admission shall be regulated by selection "by the Principal. Persons who present themselves for the B.A. "degree examination in Mathematics or Physical Science (Group II-A "of part II), during the year of application for admission to the College "may register their names, but their eligibility for admission will be "contingent on their passing the examination."

82. This rule and proposed rules 33 and 34 replace existing rules 33 to 37 which are—

"33. Candidates must have passed the first examination in Arts of "the Madras University or an examination accepted by Government "as equivalent thereto and must be between the ages of 17 and 22 "years on the 31st December preceding the year of admission. Candi-"dates otherwise qualified, but whose ages exceed the maximum above "laid down, may be admitted with the sanction of the Director of "Public Instruction, if the strength of the class permits. Students so "admitted shall be ineligible for guaranteed appointments and for "prizes and scholarships.

"34. Admission shall be regulated by a competitive examination "to be held annually on the third Monday in November and the follow-"ing day at the College of Engineering and at Rajahmundry, Bellary, "Kumbakónam, Madura, Calicut and Trivandrum.

"35. The scheme of examination shall be as follows:—

	Marks.
"Arithmetic (the whole)	100
"Algebra (including quadratic equations and the binomial theorem)	75
"Geometry (Euclid Books I to IV, VI, and XI, Propositions 1 to 21)	75
"Mensuration	50
"Trigonometry (including the solution of plane triangles)	100
"English composition	80
"Hand-writing (to be judged from the paper on English composition)	60
"Elementary drawing	60
Total ...	600

"The qualifying minimum shall be 240 marks.

"36. The fee for admission to this examination shall be Rs. 20. "Applications will be received by the Principal up to the third Monday "in October.

"37. The first twenty qualified candidates on the list shall be "selected for admission, provided that if five non-Brahmins be not "within the first twenty the number shall be made up, in order of "merit, from the *other* qualified candidates who are not Brahmins. "The names of the successful candidates shall be published in the *Fort* "*St. George Gazette.*"

83. The proposed rule 32 embodies the recommendations of the Committee that the Engineer class should in future be recruited from those who have taken the Bachelor of Arts degree with Mathematics or Physical Science as their optional subjects.

Paragraph 11 of the committee's report in G.O., No. 655, Educational, dated 3rd October 1905.

Vide Principal's remarks on page 9 of the Tabular Statement.

"With this elevation of standard, an entrance examination "becomes unnecessary. If at any future time the number of qualified "applicants shall be in excess of the number of vacancies, selection can "be made on some or all of the following bases—(*a*) marks gained in "the degree examination, (*b*) class of the population, (*c*) representation "of districts, (*d*) services of ancestors, (*e*) physique."

The rule is in accordance with the order of Government in paragraph 3 of G.O., No. 657, Educational, dated 10th October 1906, and may stand.

The provision in the existing rules in regard to an entrance examination has acoordingly been omitted.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

84. Proposed rule 33 runs—

"33. Candidates otherwise qualified, but whose age exceeds the "maximum above laid down may be admitted with the sanction of the "Director of Public Instruction, if the strength of the class permits. "Students so admitted shall be ineligible for guaranteed appointments "and for scholarships and prizes."

85. This reproduces the provision in the latter part of existing rule 33.

May stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

86. Proposed rule 34 runs—

"34. The fee for registration for admission shall be Rs. 5, which will "under no circumstances be refunded. Applications will be received by "the Principal up to the last day of May. The names of the candi- "dates to be admitted shall be published in the *Fort St. George* "*Gazette.*"

87. This rule is new. The proposed fee of Rs. 5 for registration for admission may be accepted.

88. Colonel Love observes—

"It is necessary to prescribe a registration fee as a guarantee of an "applicant's good faith and intention to join the College if selected."

The rule may stand.

C. A. SOUTER.—8-3-07.

H. D. TAYLOR.—13-3-07.

Should not the fee be refunded or part of it' if not admitted. But point may be considered if objections are subsequently raised.

G. S. F[ORBES].

89. Proposed rule 35 r

(*ii*) *Upper subordinate class.*

"35. Candidates must have passed the First Examin "Intermediate examination of the Madras University or an "accepted by Government as equivalent thereto, and must be "years of age on the 30th June of the year of admission. The "of candidates admitted annually shall not ordinarily exceed thir "the number of applicants exceeds thirty, admission shall be re "by selection by the Principal. Persons who present themselves "Intermediate examination during the year of application for adn "to theCollege may register their names, but their eligibility for a "sion will be contingent on their passing the examination."

90. This rule and the proposed rul 36 and 37 replace existing rules 39 to which are as shown below :—

"39. Candidates must have passed the Upper Secondary examina- "tion, or the Matriculation examination of the Madras University, or "an examination accepted by Government as equivalent thereto and "must be between the ages of 16 and 21 years on the 31st December "preceding the year of admission.

"40. Admissions shall be regulated by a competitive examination, "to be held annually on the last Monday in April and the following "day at the College of Engineering and at Berhampur, Vizagapatam, "Rajahmundry, Masulipatam, Bellary, Kurnool, Nellore, Kumba- "kónam, Madura, Calicut, Mangalore and Trivandram.

41. The scheme of examination shall be as follows :—

	Marks.
"Arithmetic (the whole)	125
"Algebra (including quadratic equations)	75
"Geometry (the first four books of Euclid)	100
"English composition	80
"Handwriting (to be judged from the paper on English composition)	60
"Elementary drawing	60
Total ...	500

"The qualifying minimum shall be 200 marks.

"42. The fee for admission to this examination shall be Rs. 15. "Applications will be received by the Principal up to the third Monday "in March.

"43. The first thirty qualified candidates on the list shall be selected "for admission, provided that, if five non-commissioned officers or "soldiers of British regiments, six other Europeans and Eurasians and "five Muhammadans be not within the first thirty, the number under "each may be made good, in order of merit, from the other qualified "candidates. The names of selected candidates shall be published in "the *Fort St. George Gazette.*"

Paragraph 5 of the report in G.O , No. 655, Educational, dated 3rd October 1905.

91. The proposed rule 35 embodies the recommendations of the Committee that the Upper Subordinate class should in future be recruited from those who have passed in First Examination in Arts or the Intermediate examination of the Madras University instead of from Matriculates and Upper Secondary men as a

present. The remarks in regard to entrance examination and selection under rule 30 apply to this rule also.

ay stand.

TER—8-3-07.

D. TAYLOR—13-3-07

G. S. F[ORBES].

92. Proposed rule 36 runs—

"36. Candidates otherwise qualified, but whose age exceeds the "maximum above laid down, may be admitted, with the sanction of "the Director of Public Instruction, if the strength of the class permits. "Students so admitted shall be ineligible for guaranteed appointments "and for scholarships and prizes."

93. This rule is new and has been put in on the analogy of proposed rule 33 for Engineer students.

It may stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES]—13-3-07.

94. Proposed rule 37 runs—

"37. The fee for registration for admission shall be Rs. 4, which "will under no circumstances be returned. Applications will be "received by the Principal up to the last day of May. The names of "the candidates to be admitted shall be published in the *Fort St.* "*George Gazette.*"

95. This is also new and follows the lines of proposed rule 34.

It may likewise stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

See note above under draft rule 34.

G. S. F[ORBES]—15-3-07.

96. Proposed rule 38 runs—

(iii) *Lower Subordinate class.*

"38. Candidates must have pased the Matriculation examination "of the Madras University, or an examination accepted by Government "as equivalent thereto, and must be under 22 years of age on the 30th "June of the year of admission. The number of candidates admitted "annually shall not ordinarily exceed sixty. If the number of appli- "cants exceeds sixty, admission shall be regulated by selection by the "Principal. Persons who present themselves for the Matriculation "examination during the year of application for admission to the Col- "lege may register their names, but their eligibility for admission will "be contingent on their passing the examination."

97. This rule and proposed rules 39 and 40 replace existing rules 45 to 48 and 50 which are—

"45 Candidates must have passed the lower secondary or the late "middle school examination, or an examination accepted by Govern- "ment as equivalent thereto and must be between the ages of 16 and "22 years on the 31st December preceding the year of admission.

"46. Admissions shall be regulated by a competitive examination "to be held annually on the third Monday in November at the college "of engineering and at Berhampur, Vizagapatam, Rajahmundry,

"Masulipatam, Bellary, Kurnool, Nellore, Kumbak
"Calicut, Mangalore and Trivandrum. The scheme
"shall be as follows :—

"Arithmetic (to the end of fractions)	...	...
"English composition	... ...	... 10
"Hand-writing (to be judged from the paper on English composition)	... ...	... 100
"Drawing (copying a lithographed drawing)		... 100
Total		... 400

"The qualifying minimum shall be 200 marks.

"47. The fee for admission to this examination shall be Rs. 1 "Applications will be received by the principal up to the first Monda "in October.

"48. The first thirty-five qualified candidates on the list shall be "selected for admission, provided that if four Europeans or Eurasians "and three Muhammadans be not within the first thirty-five, the "number under each may be made good, in order of merit, from the "other qualified candidates. The names of successful candidates shall "be published in the *Fort St. George Gazette.*

"50. The rules of admission to the draftsman class shall be the same "as those for the sub-overseer and surveyor class, except that the health "certificate need testify only to the candidate's fitness for the public "service, and that the deposit shall be one of Rs. 60."

Paragraphs 5 and 14 of the report in G.O., No. 655, Educational, dated 3rd October 1905.

98. The proposed rule 38 embodies the recommendations of the Committee to amalgamate the sub-overseer and surveyor and draftsman classes into a single class to be called the "Lower Subordinate class" and to raise the standard of general education for admission to this class to the Matriculation examination. Under the existing rules the maximum number of candidates prescribed for admission to sub-overseer and surveyor and draftsman classes was 70. But the proposed rule fixes the number of students for admission to the amalgamated Lower Subordinate class at 60. For orders whether the figure now proposed, namely 60, may be accepted.

The figure may stand. It is not absolute.

C. A. SOUTER—8-3-07.

The rule may stand. Selection by the Principal has now been substituted for competitive examination.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

99. Proposed rule 39 runs—

"39. Candidates otherwise qualified, but whose age exceeds the maxi- "mum above laid down, may be admitted, with the sanction of the "Director of Public Instruction if the strength of the class permits. "Students so admitted shall be ineligible for guaranteed appointments "and for scholarships and prizes."

100. This rule is new and follows the lines of proposed rules 33 and 36.

May stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

101. Proposed rule 40 runs—

"40. The fee for registration for admission shall be Rs. 3, which "will under no circumstances be returned. Applications will be re- "ceived by the Principal up to the last day of May. The names of "the candidates to be admitted shall be published in the *Fort St. George* "*Gazette*."

102. This is also new and is analogous to proposed rules 34 and 37.

...y stand. The fees are graduated 5, 4, ...cording to the three classes, *cf.* rules 34 37.

C. A. Souter—8-3-07.

H. D. Taylor—13-3-07.

See *ante* page 18.

G. S. F[orbes].

103. Proposed rule 41 runs—

(iv) *All classes.*

"41. The selected candidates of all classes shall join the College on "the 15th July (unless that day falls on a Saturday or Sunday, when "they shall join on the following Monday), and shall each on that day "deposit with the Principal—

"(*a*) a sum of money, to be drawn against for instruments and "books, which shall be for the Engineer class Rs. 120, for "the Upper Subordinate class Rs. 100, and for the Lower "Subordinate class Rs. 80;

"(*b*) a health certificate from a gazetted Government Medical "officer to the effect that the candidate is fit for the out- "door work of the Public Works department, and that he "has had small-pox or has been vaccinated;

"(*c*) his University diploma or certificate;

"(*d*) testimonials of good character covering the last two years;

"(*e*) satisfactory evidence of age;

"(*f*) a leaving certificate from his last college or school."

104. This rule prescribes a uniform date, *viz.*, 15th of July for the commencement of the course of the students of all the three classes instead of different dates prescribed by the existing rules 38, 44 and 49, namely, 20th January for the Engineer class, 1st Monday in July for the Engineer Subordinate class and the 4th Monday in January for the sub-overseer and surveyor and draftsman classes. The enumeration of documents required from students at the time of admission has been grouped together for all the classes in the proposed rule 41 and "the amounts required as deposits have been raised to those which experience shows to be necessary."

Vide Principal's remarks on page 14 of the tabular statement.

Under the present rules the deposits are Rs. 100, 75 and 75. The proposed rule may stand. The Principal's only reason for the increase in deposits is experience.

C. A. Souter—8-3-07.

H. D. Taylor—13-3-07.

It is a great pity to raise these amounts, if it can possibly be avoided. Let it stand meantime: but ask Director of Public Instruction (Principal) to report what arrangements are made for the cheap supply of books and instruments.

G. S. F[orbes]—15-3-07.

Military students.

105. The proposed rule 42 r...

"42. Non-commissioned officers and soldiers of His Majes... "Service will, to the number of five annually, be admitted to t... "They must hold a first-class Army school certificate, an... "ordinarily have been brought up in Great Britain or Ireland, "some non-tropical British Colony. If more than five candidates a... "selection will be made by the principal, who will give preference "those who have practised a trade. Candidates must be of thorough... "good character, well recommended by their commanding officers, a... "under 28 years of age on the 30th June of the year of admissio... "They must have had not less than two years' service prior to the dat... "of admission to the college. Applications will be received by the... "principal up to the last day of May. Each candidate's application "shall be forwarded by his commanding officer to the principal, and "shall be accompanied by the following documents relating to the "candidate—

"(*a*) extract from regimental defaulter's and court-martial "books for the whole period of service;

"(*b*) extract from company defaulter's book for the preceding two "years;

"(*c*) certificate that the candidate was [born and] brought up in "Great Britain or Ireland, or in some non-tropical "British Colony;

"(*d*) statement of the trade followed by the candidate before "enlistment;

"(*e*) statement that the candidate holds a first-class Army "school certificate;

"(*f*) statement whether the candidate is married or unmarried;

"(*g*) certificate of good eye-sight, sound health and unimpaired "constitution, signed by a medical officer in the follow- "ing form:—

"*I certify that I have carefully examined A.B., and that to the best of* "*my belief his eye-sight is good and he has no disease, constitutional affection* "*or bodily infirmity, unfitting him, or likely to unfit him, for out-door* "*employment as an Upper Subordinate in the Public Works Department.*

"*Name.*

"*Designation.*"

106. This corresponds to existing rule 51 which runs—

"51. Non-commissioned officers and soldiers of His Majesty's British "service, desirous of qualifying for employment in the Public Works "department, will, to the number of five annually, be admitted to the "college by a competitive examination. Candidates must be soldiers of "thoroughly good character, well recommended by their commanding "officers and under 28 years of age. They must have had not less than "two years' service prior to the date of admission to the college. Appli- "cations will be received by the principal up to the second Monday in "March. Each candidate's application shall be forwarded by his com- "manding officer to the Principal and shall be accompanied by the "following documents relating to the candidate:—

"(*a*) extract from regimental defaulter's and court-martial books "for the whole period of service;

"(*b*) extract from the company defaulter's book for the preced- "ing two years;

"(*c*) certificate that the candidate has never been dismissed from "staff employment;

"(*d*) statement whether the candidate is married or unmarried;

"(*e*) certificate of perfect eye-sight, sound health and "unimpaired constitution, signed by a medical officer in "the following form:—

"*I certify that I have carefully examined and that to the* "*best of my belief his eye-sight is perfect, and he has no disease, constitu-* "*tional affection or bodily infirmity, unfitting him, or likely to unfit him,* "*for active out-poor employment as an Upper Subordinate in the Public* "*Works Department.*

"*Name.*

"*Designation.*"

107. The Committee's recommendations regarding the qualification of Military candidates for admission, as modified by G.O., No. 657, Educational, dated 10th October 1906, have been given effect to in draft rule 42. Admission is now regulated by selection and the selected candidates have to join a probationary class for one year—*vide* paragraph 13 of the Committee's first report on page 5 of G.O., No. 655, Educational, dated 3rd October 1905.

Paragraph 9 of G.O., No. 657, Educational, dated 10th October 1906.

"The Committee originally recommended that no soldier student "should be admitted unless he were British born and bred, knew a "trade, and possessed a first-class army school certificate. Such "students, they proposed, should be admitted to a probationary class "for a period of one year to prepare them for a qualifying College "examination which should be passed prior to joining the Upper "Subordinate class.

"The Government, however, were disposed to regard these "recommendations as going too far and, if adopted in practice, as being "tantamount to abolishing recruitment from the army, a result by no "means to be desired. It was accordingly proposed to adopt in their "entirety the rules of the Roorkee College in this respect. The "Committee pointed out that the adoption of the Roorkee rules would be "inconsistent with the extension of the College course of the Upper "Subordinate class from 2½ to 3 years and that it would confer an unfair "advantage of one year's seniority on the part of Military subordinates "as compared with the civilian students. They therefore adhered to "their original recommendations, which Government accordingly "accepted save as to the requirement that a soldier seeking admission "to the college should have been brought up to a trade. As to "this the Government considered it would suffice if preference was given "to soldiers who had been so brought up."

Paragraph 9 of G.O., No. 657, Educational, dated 10th October 1906.

108. The words "or in some non-tropical British Colony" occurring at the end of the second sentence of this rule have been newly inserted. The object of the clause is explained by the Principal as follows:—

Page 5 of G.O., No. 655, Educational, dated 3rd October 1905.

"The object of the Committee is "to exclude non-commissioned officers and "men of British regiments who have been "brought up in India on the ground that "they are unequal to 'the home-bred "Britisher' (first report paragraph 13.) "A soldier who has been brought up in a "non-tropical British Colony like Canada "or Australia would be free from any "disabilities which a country-born Euro-"pean may possess, and the spirit of the "Committee's recommendations will be "carried out by providing for the eligibi-"lity of such colonials."

109. The certificate mentioned in clause (*c*) of the documents which should accompany the application has been newly put in in accordance with the second sentence of the rule.

The rule is generally in accordance with orders. There is one point, however, which seems to deserve notice. In the body of the rule it is stated that the soldier "*must ordinarily have been brought up* in Great Britain," etc. Whereas certificate (*c*) requires the candidate to have been "*born and brought up* in Great Britain, etc." The certificate is much more positive. It seems doubtful whether birth in a non-tropical country is necessary. A man born in India and brought up at home is not necessarily less fit physically than a man born and brought up in England. It would therefore seem sufficient if the certificate merely required proof that the candidate was brought up in England or any other non-tropical country.

C. A. Souter—8-3-07.

Yes.

H. D. Taylor—13-3-07.

Very well.

G. S. F[orbes].

110. Proposed rule 43 runs—

"43. The selected candidates shall join the College on the 15th "July, and bring with them:—

"(*a*) a descriptive roll;

"(*b*) the record of service;

"(*c*) a last-pay certificate;

"(*d*) last clothing and bedding certificates;

"(*e*) a certified list of clothing and necessaries in their possession "when quitting their regiment;

"(*f*) a certificate of the carriage, if any, furnished to them at the "Government expense, etc., on leaving their regiments to "proceed to Madras."

Page 14 of the tabular statement.

111. This corresponds to the first part of the existing rule 53 with the alteration that the date on which the selected candidates should join the College has been fixed as 15th July.

May stand.

C. A. Souter—8-3-07.

H. D. Taylor—13-3-07.

G. S. F[orbes].

112. Proposed rule 44 runs—

"44. When not furnished with carriage to enable them to join, a "certificate shall be given to this effect, and they shall then receive "travelling allowance at the rate of one anna per mile. A double "allowance shall be granted to married men if they are accompanied "by their wives."

Page 14 of the tabular statement

113. This is the second paragraph of existing rule 53.

May stand.

C. A. Souter—8-3-07.

H. D. Taylor—13-3-07.

G. S. F[orbes].

114. Proposed rule 45 runs—

"45. The selected candidates shall on joining attend as probationers "for one year during which they will prepare for a College qualifying "examination in Mathematics, English and Elementary Drawing. "Probationers who fail to pass this examination shall at once revert to "their corps Those who pass shall join the first-year Upper Subordi-"nate class as regular students."

Vide paragraph 9 of Government Order.

115. This rule is new and embodies the Committee's recommendation approved in G.O., No. 657, Educational, dated 10th October 1906, that "such students should

st part of the committee's first report, of G.O., No. 655, Educational, dated ober 1905.

"be admitted to a probationary class for a "period of one year to prepare them for a "qualifying college examination which "should be passed prior to their joining "the Upper Subordinate class. All "failures should at once rejoin their "units."

rule is in accordance with orders.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

116. Proposed rule 46 runs—

"46. While studying at the College Military students shall be "considered as doing duty, and shall remain on the strength of their "respective regiments, without prejudice to their promotion and other "advantages until they are appointed to the Public Works Department. "They shall be provided with barracks and married quarters at the "College, shall wear the undress or fatigue uniform of their rank and "regiment, and shall be under the command of the Principal, or in his "absence, of the Superintendent of Military students. They shall "receive, whilst at the College, the same pay as with their regiments, "including good-conduct pay when entitled to it, together with rations "or compensation in lieu, and a College allowance of Rs. 11 per mensem "to cover extra messing and other expenses. They shall be exempted "from the payment of College fees, and shall be supplied *gratis* with "drawing instruments and the text-books in use. They shall not "compete for civil scholarships, but shall be eligible for medals and "prizes. The Principal may remand any student to his regiment for "insufficient progress or unsatisfactory conduct."

117. This is existing rule 54.

Requires no alteration.

C. A. SOUTER—8-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

118. Proposed rule 47 runs—

"47. Military students who pass the final examination at the end of "the course of study shall be appointed Apprentice Overseers for one "year. During this period they shall retain their position as students, "and shall continue to be borne on College and regimental lists. Their "military pay and clothing shall be drawn from the Military Department "by the Executive Engineers of the divisions to which they are attached. "The Apprentices shall be provided with free quarters or compensation "in lieu, and shall receive a staff allowance sufficient to bring their total "consolidated pay up to Rs. 80 per mensem. Married men shall receive "in addition the usual regimental allowances for wife and children. "Any apprentice who is unfavourably reported on shall revert to his "corps. Military apprentices shall receive travelling allowance at the "rate of two annas per mile, or in case of portions of the journey per-"formed by railway at one anna and a half per mile for the journey from "Madras to the site of the work to which they are posted, and for all "journeys performed on transfer during their apprenticeship."

119. This rule embodies the provisions of the first part of existing rules 55 and 56 and existing rule 57 which are as shown below:—

"55. The course of study and examinations shall be those of the "engineer subordinate class. Those men who pass the final examination "shall, in order of merit and to the extent of the requirements of the "Public Works Department of Madras and Burma, be appointed

"apprentice overseers for one year. [Two appointments as app "overseer in the Madras Public Works Department will be giv "year. In addition an appointment as apprentice overseer in the "Public Works Department may be expected from time t "Students who qualify, but do not pass sufficiently high for imm "appointment, shall revert to their regiments pending selection "subsequent year in which less than the guaranteed number p "examination.]

"56. During their year of practical study the military appren "shall retain their position as students, and shall continue to be born "college and regimental lists. Their military pay and clothing sha "drawn from the Military Department by the Executive Engineers of the "divisions to which they are attached. They shall be provided with free "quarters or compensation in lieu and receive a staff allowance sufficient "to bring their total consolidated pay up to Rs. 80 *per mensem*. Married "men shall receive in addition the usual regimental allowances for wife "and children. [The apprentice overseers, if favourably reported on, "shall, at the termination of the practical year, be transferred in the rank "of Sergeant, to the Unattached List, and posted to the Public Works "Department as first-grade overseers. Any apprentice who is unfavour-"ably reported on shall revert to his regiment. An outfit allowance of "Rs. 150 will be granted to military apprentices on their appointment to "the department.]

"57. Military apprentices shall receive travelling allowance at the "rate of two annas per mile, or in case of portions of the journey "performed by railway, at one anna and a half per mile, for the journey "from Madras to the site of the work to which they are posted, and for "all journeys performed on transfer during their apprenticeship."

120. Provision is made for the completion of the full course by all Military students who are successful at the final examination. The allowance granted during the year of apprenticeship being considered insufficient, and the apprentice not being allowed to profit by the additions recently made to the soldier's pay, provision is made in the proposed rule for the payment of a staff allowance of Rs. 42-8-0 per mensem in addition to regimental pay and allowances. This question has been separately raised by the Director of Public Instruction and the papers have been sent to the Public Works Department for remarks. It does not appear to be necessary to increase the staff allowance paid to these military apprentices and it is for consideration whether the staff allowance provided in the existing rule 56 may be retained.

This must await orders on the separate reference.

C. A. SOUTER—8-3-07.

Yes. Meanwhile the existing arrangements should stand.

H. D. TAYLOR.—13-3-07.
G. S. F[ORBES].

121. Proposed rule 48 runs—

"48. At the expiration of the year of apprenticeship the Military "apprentices shall, in the order of merit determined by the College final "examination and to the extent of the requirements of the Public Works "Department, be appointed to the permanent establishment as first-grade "Overseers. Any apprentices who may not be required shall revert to

"their corps, but shall be eligible for employment in the Public Works "Department in a subsequent year, or in the Military Works Service at "any time. An outfit allowance of Rs. 150 shall be granted to Military "apprentices on their appointment to the Public Works Department."

122. This corresponds to the latter parts of the existing rules 55 and 56. The reference to the number of apprenticeships and to appointments in Burma in existing rule 55 has been omitted, as being unnecessary, Burma having never taken a student from the College. Allusion is also made to the eligibility of the Military students for the Military Works Service.

Vide Principal's remarks on page 13 of the tabular statement.

The rule may stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

123. Proposed rule 49 runs—

Tuition Fees.

"49 *Tuition fees.*—The following shall be the fees payable in "advance by students while at the College. Fees shall, under no cir- "cumstances, be returned after a student has been admitted to the "institution:—

"Class.	For the full theoretical course.	Sessional rate.	Monthly rate.
	Rs	Rs.	Rs.
"Engineer class	360	130	12
"Upper Subordinate class	180	65	6
"Lower Subordinate class	100	37½	4 "

Page 16 of the tabular statement.

124. This corresponds to existing rule 58. The rates of fees approved by Government in paragraph 4 of G.O., No. 655, Educational, dated 3rd October 1905, have been adopted. "The sessional rates have "been fixed at rather more than one-third "and the monthly rates at rather more "than 1/36th of those for the whole "course" A term rate as suggested in paragraph 4 of the Government order above quoted is stated to be unsuitable owing to the inequality of the length of the terms.

Vide Principal's remarks on page 16 of the tabular statement.

May stand.

C. A. SOUTER—8-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

125. Proposed rule 50 runs—

"50. *Special fees.*—A contribution of Rs. 5 per annum shall be made "by each student to the College Recreation Club. The riding course "fee for students of the Engineer and Upper Subordinate classes shall "be Rs. 15. The premium payable by mechanical engineer students at "Perambur is laid down in Rule 17."

Page 16 of the tabular statement.

126. This corresponds to existing ru 59. The contribution of Rs. 2 per te for the recreation club prescribed by t existing rule 59 has been changed int Rs. 5 per annum in the proposed rule. The words "paragraph 17" at the end of the rule may be altered into "Rule 17".

No reason is given for the increase in fee, but the matter seems one to be decided by the Principal.

C. A. SOUTER—10-3-07.

H. D. TAYLOR—13-3-07.

I should reduce it to what represents the old amount making it Rs. 4 per annum. Every endeavour must be made to reduce expenses of students going in for these technical courses.

G. S. F[ORBES]—15-3-07.

127. Proposed rule 51 runs—

"51. *Examination fees.*—Students shall pay fees at the following "rates for admission to the College Examinations:—

	Rs.
"Engineer class	20
"Upper Subordinate class	15
"Lower Subordinate class	10

"These fees, which cover in each case all the examinations held "during the course, shall be paid before the commencement of the final "examination."

Vide existing rule 60 on page 16 of the tabular statement.

128. The rates of fees now proposed are the same as those now in force—*vide* existing Rule 60.

May be approved.

C. A. SOUTER—10-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

129. Proposed rule 52 runs—

SCHOLARSHIPS, STIPENDS AND PRIZES.

(i) *Engineer class.*

"52. *Government scholarships.*—Two scholarships of the monthly "value of Rs. 15 each will be annually awarded in each of the three "class-divisions. At the commencement of the first year of study they "will be granted by the Director of Public Instruction on the recom- "mendation of the Principal. At the beginning of the second and third "years they will be awarded to the two students who obtain the highest "marks at the sessional examinations. A third scholarship of the "monthly value of Rs. 15 will be awarded annually in each class-division "by the Director of Public Instruction on the recommendation of the "Principal to a student who does not hold one of the first-mentioned "scholarships, preference being given to a Muhammadan or Indian "Christian, or a European or Eurasian, in the order named. One "scholarship of Rs. 20 per mensem, tenable for three years, may, under "Gazette Notification, dated 11th August 1902, be awarded annually to "a European or Eurasian student at the beginning of the course of "study."

Page 16 of the tabular statement.

130. This corresponds to existing rule 61 which says that "two of the three "scholarships are to be awarded to the "two candidates standing highest at the "entrance examination and the third to a

"Muhammadan or a Native Christian or "European or Eurasian in the order "mentioned, who is admitted to a class "and who does not secure a merit scholarship." Owing to the proposed abolition of the entrance examinations, the two merit scholarships for each class will at the commencement of the course be awarded by selection, *i.e.*, by the Director of Public Instruction on the recommendation of the Principal and the scholarships will thereafter be awarded on the results of the sessional examinations. The third scholarship will as before be awarded to a student who does not hold one of the first-named scholarships, preference being given to a Muhammadan or Indian Christian or a European or Eurasian in the order named. It is not, however, stated expressly in the revised rule that the award of the first two scholarships which has to be made by the Director on the recommendation of the Principal should be based on merit, although this appears to be the obvious intention of the framers of the rule. It seems, however, to be desirable to lay down expressly the basis on which these two scholarships are to be awarded.

131. The last sentence in the proposed rule has been newly inserted with reference to Gazette notification, dated 11th August 1902, on pages 533–34 of Part I-B of the *Fort St. George Gazette*, dated 19th August 1902, sanctioning additional scholarships in the College of Civil Engineering for European and Eurasian candidates.

I would let the rule stand as it is. The granting of the first year scholarships can be only a matter of discretion when there is no examination. The Principal may be trusted to be honest, and he will doubtless duly recognise merit.

C. A. SOUTER—10-3-07.

The words "on the recommendation of the Principal" are not very clear. It would be better if the Principal were to submit four names to the Director of Public Instruction in the first case and two names in the case of the special scholarship, leaving the final *selection* to the Director of Public Instruction. As the rule stands the Director of Public Instruction would be bound to accept the Principal's nomination.

H. D. TAYLOR—13-3-07.

I think he should; otherwise we shall have friction between the Director of Public Instruction, who can have no knowledge of the class of candidates, and the Principal. Let the rule stand.

G. S. F[ORBES]—15-3-07.

132. Proposed rule 53 runs—

"53. *Other scholarships.*—The Government of Mysore awards "neering scholarships annually of Rs. 30 per mensem tenable for "years. The University scholarships founded by the Maharajas "Travancore and Cochin, of the value of about Rs. 30 per mem "tenable for the minimum period necessary to qualify for the D "degree, may be held by students of the Engineer class. All th "scholarships are tenable only by students who are subjects of "States concerned."

May be approved.

C. A. SOUTER—10-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES].

133. This rule has been newly inse... with reference to rules on pages 110 and 111 of the College of Engineering Calendar for 1906.

134. Proposed rule 54 runs—

"54. Scholarships may be reduced or forfeited for misconduct, idle- "ness, or want of progress."

135. This is also new and will, if approved, serve as a good check on the scholarship holders.

A useful rule, but in any case the granting power has the right of withdrawing the grant. May be approved.

C. A. SOUTER.—10-3-07.

H. D. TAYLOR.—13-3-07.

G. S. F[ORBES].

136. Proposed rule 55 runs—

"55. A gold medal will be awarded to the student who passes highest "at the final examination. Prizes will be given to students who display "proficiency in special subjects."

137. This corresponds to existing rule 62. The provision in the latter part of the proposed rule in regard to the award of prizes corresponds to existing rule 73.

May be approved.

C. A. SOUTER.—10-3-07.

H. D. TAYLOR.—13-3-07.

G. S. F[ORBES].

138. Proposed rule 56 runs—

"56. During the year of practical training subsistence allowances of "Rs. 50 per mensem for Europeans and Eurasians, and Rs. 25 per "mensem for Indians shall ordinarily be granted; but these amounts "shall be increased to Rs. 60 and Rs. 37½ per mensem respectively in "the case of students posted to hill stations. The grant of subsistence "allowance shall be contingent on the good conduct and satisfactory "progress of the student; and on proof of misconduct or idleness the "allowance may be withdrawn by the Principal on the recommendation "of the Executive Engineer or the officer in charge of workshops. "Travelling allowances to students joining or on the works shall be "drawn at the rates sanctioned for officers of the third-class under the "Civil Service Regulations."

139. This corresponds to existing rule 63, the only alteration being that the power of withdrawing the subsistence allowance on proof of misconduct or idleness is now vested in the "Principal on the recommendation of the Executive Engineer or the officer in charge of workshops" instead of in the Executive Engineer under the original rule.

140. This modification may be accepted.

reasons are given for the change, which, er, seems necessary as the person under ing during the year of training is still in *pupillari*.

C. A. SOUTER—10-3-07.

I see no objection but the proposal is one ch will have to be accepted in Public Works artment.

H. D. TAYLOR—13-3-07.

This may be accepted.

A. G. ROMILLY—13-3-07.

Accepted in Public Works Department.

F. J. WILSON—13-3-07.

Let it stand. The rule says *may*.

G. S. F[ORBES]—15-3-07.

141. Proposed rule 57 runs—

(ii) *Upper Subordinate class.*

"57. *Government scholarships.*—Two scholarships of the monthly "value of Rs. 10 each will be awarded annually in each of the three "class-divisions. At the commencement of the first year of study the "scholarships will be granted by the Director of Public Instruction on "the recommendation of the Principal. At the beginning of the second "and third years they will be awarded to the two students who obtain "the highest marks at the sessional examinations. A third scholarship "of the monthly value of Rs. 10 will be awarded annually in each of "the three class-divisions by the Director of Public Instruction on the "recommendation of the Principal, to a student who does not hold one "of the first-mentioned scholarships, preference being given to a "Muhammadan, or Indian Christian, or a European or Eurasian, in "the order named. One scholarship of Rs. 15 per mensem, tenable for "three years, may, under Gazette notification, dated 11th August 1902, "be awarded annually to a European or Eurasian student at the "beginning of the course of study."

142. This corresponds to the existing rule 64, the rule having been modified on the lines of the proposed rule 52. The remarks under the rule last quoted apply to this rule also.

The rule may stand.

C. A. SOUTER—10-3-07.

See note against Rule 52.

H. D. TAYLOR—13-3-07.

Let it stand.

G. S. F[ORBES].

143. Proposed rule 58 runs—

"58. *Walker scholarship.*—A scholarship of the value of about "Rs. 13 per mensem is tenable for three years by a student who is a "native of the Malabar, South Canara or Nilgiri district, and who "possesses a fair knowledge of Malayalam or Canarese."

144. This is the same as the existing rule 66, except that the period for which the scholarship is tenable is changed from $2\frac{1}{2}$ to 3 years.

This will involve reduction of amount I imagine; but the Principal will see to this.

G. S. F[ORBES].

The change is necessary owing to the extended course.

C. A. SOUTER—10-3-07.

H. D. TAYLOR—13-3-07.

G. S. F[ORBES]—15-3-07.

145. Proposed rule 59 runs—

"59. Scholarships may be reduced or forfeited for misconduct, idle- "ness or want of progress."

Perhaps the one rule would suffice for all scholarships But it may be allowed to stand under each class.

C. A. SOUTER—10-3-07.

H. D. TAYLOR—13-3-07.

Bad drafting but let it stand.

G. S. F[ORBES].

146. This rule is new and is analogou to the proposed rule 54.

147. Proposed rule 60 runs—

"60. A silver medal will be awarded to the student who passes "highest at the final examination. Prizes will be given to students who "display proficiency in special subjects. The 'Rogers' prize of the "value of about Rs. 20 shall be given annually in books to the silver "medallist of the year."

148. This embodies the provisions of the existing rules 65, 67 and 73—pages 17 and 18 of the tabular statement.

The rule may be approved.

C. A. SOUTER.—10-3-07.

H. D. TAYLOR.—13-3-07.

G. S. F[ORBES].

149. Proposed rule 61 runs—

"61. During the practical course subsistence allowance of Rs. 30 "per mensem for Europeans and Eurasians, and Rs. 20 for Indians shall "ordinarily be granted; but these amounts shall be increased to Rs. 40 "and Rs. 30 per mensem, respectively, in the case of students posted to "hill stations. The grant of subsistence allowance shall be contingent on "the good conduct and satisfactory progress of the student; and on proof "of misconduct or idleness the allowance may be withdrawn by the "Principal on the recommendation of the Executive Engineer. Travell- "ing allowances to students joining or on the works will be drawn at the "rates sanctioned for officers of the third class under the Civil Service "Regulations."

150. This is the existing rule 68, the only modification being that the power of withdrawing the subsistence allowance is transferred from the Executive Engineer to the Principal as in proposed rule 56.

May be approved.

C. A. SOUTER.—10-3-07.

Subject to acceptance of Public Works Department.

H. D. TAYLOR.—13-3-07.

May be accepted.

A. G. ROMILLY—13-3-07.

Accepted in Public Works Department.

F. J. WILSON—13-3-07.

G. S. F[ORBES].—15-3-07.

151. Proposed rule 62 runs—

(iii) *Lower Subordinate class.*

"62. Two scholarships of the monthly value of Rs. 8 each will be "awarded annually in each of the three class-divisions. At the com- "mencement of the first year of study the scholarships will be granted "by the Director of Public Instruction on the recommendation of the "Principal. At the beginning of the second and third years they will "be awarded to the two students who obtain the highest marks at the "sessional examinations. A third scholarship of the monthly value of "Rs. 8 will be awarded annually in each of the three class-divisions by "the Director of Public Instruction on the recommendation of the

"Principal to a student who does not hold one of the first-mentioned "scholarships, preference being given to a Muhammadan, or Indian "Christian, or a European or Eurasian, in the order named. Scholarships "may be reduced or forfeited for misconduct, idleness or want of "progress."

152. This corresponds to the existing rules 69 and 71. The award of the scholarships provided in the proposed rule is to be by selection as in the case of the Engineer and Upper Subordinate class students (*c.f.*) proposed rules 52 and 57. There is however one point which requires consideration. Under the existing rules 69 and 71 there are three scholarships for the sub-overseer and surveyor class and three scholarships for the draftsman class. For the Lower Subordinate class which takes the place of these two classes, provision is made only for three scholarships. As the maximum number of students for admission into the Lower Subordinate class has been fixed at 60 as against 70 prescribed for the existing sub-overseer and surveyor and draftsman classes, it is perhaps desirable to increase the number of scholarships by at least two.

The 3 class divisions are, I presume, the sub-overseer, the surveyor and the draftsman's classes. Two scholarships each will be granted, *i.e.*, 6 in all, the same number as at present existing. There seems no need to change.

C. A. Souter—10-3-07.

H. D. Taylor—13-3-07.

G. S. F[orbes]—15-3-07.

153. Proposed rule 63 runs—

"63. A bronze medal will be awarded to the student who passes "first at the final examination."

154. This is existing rule 72.

May be approved.

C. A. Souter—10-3-07.

H. D. Taylor—13-3-07.

G. S. F[orbes].

155. Proposed rule 64 runs—

Special Prizes.

"64. Three 'Sir Madhava Rau' prizes of the value of Rs. 20 "each will be given annually, under certain prescribed conditions, for "proficiency in practical work. When possible, one prize will be "awarded to a Mahratta Brahman."

156. This is existing rule 74.

May be approved.

C. A. Souter—10-3-07.

H. D. Taylor—13-3-07.

I don't like the "when possible". I presume the rule means if there is a Mahratta Brahman deemed worthy of the prize, etc. But I have not the conditions of the grant. So let it stand at present, unless office finds time to alter it now.

G. S. F[orbes]—15-3-07.

157. Proposed rule 65 runs—

Stipends in Workshops.

"65. Four stipends of the monthly value of Rs. 6 for the first "year, Rs. 7 for the second year, and Rs. 8 for the third year will be "awarded annually to young men who have passed the elementary

"technical examination in carpentry or blacksmith's work, and who "the College workshop ~~with a view~~ to be trained as teachers in tech "or industrial schools or in school workshops for manual training. "course shall extend over three years during which time the stud "shall be prepared for the highest technical examination in cabin "making, or carpentry, or fitter's work. The students shall ordinari "work in the workshop for thirty-five hours per week and will be allowe "one month's vacation and ordinary authorized holidays. The stipend "may be reduced or forfeited for misconduct, idleness or want of progre "The stipendiaries shall be required, if need be, to serve as teachers "two years, and to submit half yearly reports as to how they "employed for three years after leaving the workshops."

"a view to be" may perhaps be altered into "the view of being"

C. A. Souter.

Yes or omit "with a view".

G. S. F[orbes].

158. This is existing rule 75.

May be approved.

C. A. Souter—10-3-07.

H. D. Taylor—13-3-07.

159. Proposed rule 66 runs—

Leave and Dismissal.

"66. Students may obtain leave of absence by previous application "to the Principal."

160. This is existing rule 80—

May be approved.

C. A. Souter.—10-3-07.

H. D. Taylor—13-3-07.

G. S. F[orbes].

161. Proposed rule 67 runs—

"67. Scholarship-holders shall forfeit their scholarships during any "period, however short, of absence without leave, and shall be further "liable to have their schorlarships withdrawn, if they absent themselves "without leave for five consecutive working days."

May be approved. 162. This is existing rule 81.

C. A. Souter.—10-3-07.

H. D. Taylor.—13-3-07.

G. S. F[orbes].

163. Proposed rule 68 runs—

"68. In cases of severe illness certified to by a competent medical "authority, sick leave with scholarship may be given by the Principal "for a fortnight. If such leave is granted for a period exceeding a "fortnight, the excess period shall be leave without allowances."

May be approved. 164. This is existing rule 82.

C. A. Souter.—10-3-07.

H. D. Taylor.—13-3-07.

G. S. F[orbes].

165. Proposed rule 69 runs—

"69. Any student who has obtained admission into the College by "means of a false certificate or by false representations of any kind, or "who has been found guilty of grave misconduct, shall be summarily "dismissed; the fact of such dismissal and the reasons for it being at "once reported to the Director."

May be approved. 166. This is existing rule 83.

C. A. Souter.—10-3-07.

H. D. Taylor.—13-3-07.

G. S. F[orbes].

167. Proposed rule 70 runs—

"70. Leave may be granted during the practical course for a "period or aggregate of periods not exceeding one month per annum. "Such leave shall not entail forfeiture of stipend, but any leave in "excess of one month shall involve loss of stipend, and the practical "course shall be extended by a period equal to the excess over one "month per annum of the leave granted."

Page 19 of the tabular statement.

168. This is existing rule 84.

May be approved.
C. A. Souter—13-3-07.
H. D. Taylor—13-3-07.
G. S. F[orbes].

169. Proposed rule 71 runs—

Board of Examiners.

"71. All sessional and final examinations shall be conducted by a "Board of Examiners, consisting of a President and two members "appointed by Government on the recommendation of the Director of "Public Instruction for a term of three years. The President and "members shall ordinarily be engineers. Two members of the College "Professional Staff shall be advisory members of the Board. When "necessary, the Board may, with the sanction of Government, employ "assistant examiners. The decision of the Board of Examiners in "regard to the qualifications of any student appearing for examination "shall be final. The names of all students declared by the Board to "have passed a final examination shall be published in the *Fort St. "George Gazette*. After completing the annual examinations, the "Board shall submit a report to Government, through the Director of "Public Instruction, summarising the results of the examinations. It "may record in the report any observations of a general nature bearing "on the working of the college, or make any suggestions it may "consider expedient, provided such observations or suggestions arise "naturally out of the examination work which the Board has to perform. "The report shall be signed by the President and members of the "Board."

Page 20 of the tabular statement.

170. This is the same as existing rule 85 with the difference that the second and third sentences of the proposed rule have been newly put in. The addition made to the strength of the Board is in accordance with paragraph 10 of G.O., No. 655, Educational, dated 3rd October 1905. The provision that the President and members shall be Engineers is stated to have been made as "experience has shown "that members of the Board who are not "Engineers do not realize the require-"ments of a professional course."

Vide Principal's remarks on page 20 of the tabular statement.

May be approved. It ought never to be difficult to secure the services of two Engineers. To obviate any difficulty, however, the word "ordinarily" may be inserted after "shall" in the second sentence.
C. A. Souter—10-3-07.
H. D. Taylor—13-3-07.
G. S. F[orbes].

[But what is an "*Engineer*". There is no standard. As has been said a hundred times any one can daub himself C.E. However let it stand inserting ordinarily.]
G. S. F[orbes].

171. Proposed rule 72 runs—

Diplomas and certificates.

"72. *Engineer and Upper Subordinate classes.*—On the completion of "the course in the College, a provisional certificate signed by the "Principal and the President of the Board of Examiners shall be "issued showing that the candidate has passed the final examination. "On the satisfactory completion of the practical course a diploma, "signed by the Principal and the Director of Public Instruction, shall "be issued, setting forth the qualifications of the student for employ-"ment as a Civil Engineer, a Mechanical Engineer, or as an Upper "Subordinate."

172. This is existing rule 87 *mutatis mutandis*.

Perhaps "Engineer" may be added to "Upper Subordinate." *Cf.* rule 1.
C. A. Souter.
H. D. Taylor.
G. S. F[orbes].

173. Proposed rule 73 runs—

"73. A student who has passed the final examination of the Upper "Subordinate class, and who elects not to proceed to the practical course, "shall be granted a certificate of qualification as a Lower Subordinate."

174. This provision embodies the second sentence of existing rule 88, which says—

"88. [*Sub-Overseer and Surveyor class and Draftsman class.*—On the "completion of the course, a certificate signed by the Principal and the "President of the Board of Examiners shall be issued, stating that the "student has passed the final examination and is qualified for employ-"ment as a Sub-Overseer and Surveyor or as a Draftsman.] A student "who has passed the final examination of the Engineer Subordinate class, "and who elects not to proceed to the practical course, shall be granted "a certificate of qualification as a Sub-Overseer."

May be approved. Ought not "Engineer" to be added to "Lower Subordinate"? *Cf.* rule 1.
C. A. Souter.
H. D. Taylor—13-3-07.
G. S. F[orbes].

175. Proposed rule 74 runs—

"74. *Lower Subordinate class.*—On the completion of the course, a "certificate signed by the Principal and the President of the Board of "Examiners shall be issued, stating that the student has passed the final "examination and is qualified for employment as a Lower Subordinate "or as a Surveyor or a Draftsman."

176. This corresponds to the first part of existing rule 88.

See note above.
C. A. Souter.
H. D. Taylor—13-3-07.
G. S. F[orbes].

177. Proposed rule 75 runs—

Employment of passed students.

"75. *Engineers.*—One appointment as apprentice Engineer in the "Public Works Department shall be conferred annually on the student "who passes highest at the final examination. The apprenticeship shall "commence on the 1st July following the final examination and shall "ordinarily extend over twelve months, when the apprentice, provided "he has fulfilled the conditions of paragraph 11, chapter II, volume I, "Public Works Department Code, shall be brought on the permanent "establishment of the Public Works Department, Provincial Service, as "third-grade Assistant Engineer. Other Engineer students, who have

"satisfactorily completed the practical course, shall be eligible for
"appointment to the temporary Upper Subordinate establishment of
"the Public Works department, whence transfers may be made to the
"permanent establishment to fill existing vacancies on the recommend-
"ation of Superintending Engineers. Fully qualified Engineer
"students may also be appointed Assistant Engineers under Local
"Boards."

178. This is existing rule 89 with the difference that the condition regarding the passing of the B.E. degree examination which is found in the existing rule has been omitted with reference to rule 16.

179. This draft rule is stated to be only transitory and will have to be modified in common with others relating to the Engineer class, when the bifurcation between the civil and mechanical courses can be introduced.

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

180. Proposed rule 76 runs—

"76. *Upper Subordinates.*—One appointment annually as Overseer,
"third-grade, in the permanent Upper Subordinate establishment of
"the Public Works Department shall be conferred on the Civilian Upper
"Subordinate student who passes highest at the final examination, pro-
"vided he has satisfactorily completed his practical course and provided
"a vacancy exists for such appointment. Other Civilian Upper Subordi-
"nate students, who have satisfactorily completed the practical course and
"for whom there are vacancies, shall be eligible for appointment to the
"temporary Upper Subordinate and Lower Subordinate establishments
"of the Public Works Department, whence transfers may be made to
"the permanent Upper Subordinate establishment to fill existing vacan-
"cies on the recommendation of Superintending Engineers. No person
"will be eligible for appointment to the permanent Upper Subordinate
"establishment unless he be a fully qualified Engineer or Upper
"Subordinate. Appointments as Delta Superintendent, Minor Irri-
"gation Overseer and as Overseer to District Boards and Municipalities
"are also open to qualified Upper Subordinates.

"Military apprentices required for the Public Works Department
"will be appointed first-grade Overseers under paragraph 48 of these
"rules. In alternate years, one appointment to the Engineer establish-
"ment, Provincial service, will be offered to a senior selected Upper
"Subordinate of the Public Works Department."

181. This is existing rule 90 *mutatis mutandis*. But the words "under rule 48" may be substituted for the words "under paragraph 48 of these rules" occurring in proposed rule 76.

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

182. Proposed rule 77 runs—

"77. *Lower Subordinates.*—Qualified Lower Subordinates will be
"appointed to the Public Works Department as Sub-overseers and as
"Draftsmen as vacancies occur. They will be eligible also for employ-
"ment as Channel Superintendent in the Public Works Department
"and as Deputy Surveyor in the Survey Department. When the

"services of temporary men are required for special surveys not under-
"taken by the Public Works Subordinate staff, the Public Works officers
"in charge are instructed to select for such employment none but
"qualified Lower Subordinates of the College."

183. This is existing rules 91 and 92 *mutatis mutandis*.

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

184. Proposed rule 78 runs—

"78. Students of the Engineer and Upper Subordinate classes who
"pass sufficiently high to merit guaranteed appointments shall, before
"appointment, produce certificates of physical fitness for the work of the
"Public Works Department. The medical examination for such certi-
"ficates shall be held at the end of the practical course. Other qualified
"students will, on appointment to the Public Works Department be
"required to produce certificates of physical fitness under the ordinary
"rules of the Public service."

185. This is existing rule 93, *mutatis mutandis*, and may be approved.

C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.

What is a "guaranteed" appointment in this rule and in rule 79? In any case "guaranteed" is a dangerous word to use. Does it mean the appointments referred to in rules 75, 76 and 77? If so, better substitute these words (underlined) for guaranteed? What about a *language* test before appointment to Public Works Department?

A

Vide paragraphs 1 (2) of draft order.
K. RANGASWAMI AIYANGAR —17-3-07.

G. S. F[ORBES]—15-3-07.

186. Proposed rule 79 runs—

"79. The guaranteed appointments referred to are reserved for
"statutory natives of India, provided that natives of pure Asiatic
"descent shall be admitted only if their parents or guardians are
"domiciled in the Madras Presidency or the States of Travancore,
"Cochin, Pudukkóttai, Sandúr, Banganapalli and Mysore."

187. This is existing rule 94.

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR.—13-3-07.

See under rule 78.
G. S. F[ORBES].

188. Proposed rule 80 runs—

"80. It shall be the duty of the Principal to render all reasonable
"assistance to passed students who may not be appointed to the Public
"Works Department, in seeking employment under Local Boards and
"Municipalities and other agencies. With this ~~view~~ lists of qualified
"men, with remarks as to their attainments, conduct, etc., shall be
"circulated annually to Local Boards and Municipalities, with recom-
"mendations that they may be employed in suitable posts when
"opportunities offer, and the attention of ~~such~~ ~~Boards~~ should be invited
"to G.O. No. 2773 L., dated 12th December 1893."

Horrible English, but I can't radically alter it now. G.S.F.

object. G.S.F[ORBES].

those Local authorities. G.S.F[ORBES].

189. This is existing rule 95.

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.

190. Proposed rule 81 runs—

Casual Students.

"81. Applicants who possess sufficient general education to follow "the instruction given, who produce certificates of good health and good "character, ∧ make the ~~usual~~ ∧ deposit and pay the prescribed fees, "may be admitted as casual students to the Engineer class, provided ∧ prescribed G.S.F. "that accommodation is available for them. They may present themselves for the term and final examinations, and if they pass they will "receive the provisional certificates issued to successful students at the "end of the College course; but they shall not be eligible for (guaranteed "appointments), ∧ or for scholarships or prizes, or for the free practical "course."

∧ and who G. S. F[ORBES].

∧ the appointments referred to in rules G. S. F[ORBES].

191. This rule corresponds to existing rules 96 and 97 which are—

Casual students.

"96. Applicants who pass the entrance examination, and who pro- "duce certificates of good health and good character, make the usual "deposit and pay the prescribed fees may be admitted as casual students "to the engineer class, provided that accommodation is available for them. "They may present themselves for the term and final examinations, and "if they pass they will receive provisional certificates issued to successful "students at the end of the college course; but they shall not be eligible "for guaranteed appointments or for scholarships or prizes or for the free "practical course.

"97. Other casual students may also be admitted to the engineer "class for one or more terms, on payment of the prescribed fees, for in- "struction in special subjects, provided that they possess sufficient general "education to follow and profit by the instruction given and that accom- "modation is available for them. They shall not be eligible for any of "the college examinations, but may receive a certificate of attendance.

"97-A. Any duly qualified teacher employed in a departmental "institution or in any school recognised by the Madras Educational "department may, with the sanction of the Director of Public Instruction, "receive a course of training in any subject taught in the College, free "of charge.

"97-B. A teacher who is in Provincial or Local or Municipal "employment may, with the sanction of the Director or President, or "Chairman, as the case may be, be allowed during the course of training "a portion not exceeding one-half of the pay of his substantive appoint- "ment. Certificated teachers in receipt of salary grants whom a manager "may wish to attend a course will be eligible for the continuance of their "grants during such course, provided that the Principal of the College "certifies that their conduct has been good and their progress satis- "factory.

"97-C. Teachers employed in Government, Local or Municipal "Schools who are required to receive a course of training shall be entitled "(subject in the case of the last two classes to the sanction of the Board "or Municipal Council concerned) to draw travelling allowances from "Provincial, Local or Municipal funds, respectively, for a single journey "on joining and on leaving the College, at rates which shall follow the "classes to which the teachers belong as defined in the Civil Service "Regulations. Other students shall not be allowed travelling expenses "from public funds.

192. Under these rules two descriptions of casual students may be admitted to the Engineer class comprising (1) those who go through the whole course prescribed for the Engineer students and (2) those who are admitted for one or more terms for instruction in special subjects. The proposed rule retains only the first class of students, while the second class which contemplates the study of particular subjects has been omitted as these students "have been unrepresented in the past and "it would be inconvenient to accept such "persons as the staff is not strong enough "to provide for special courses of "instruction."

The special privileges to teachers have been withdrawn; perhaps there is no need to keep them. The special instruction of the College would seem of doubtful utility to such men.

C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-37.
G. S. F[ORBES].

193. Existing rules 98 and 99 which provide for "independent candidates" have been omitted as under revised rules 15, 21 and 26 students can pass the final examinations only at the end of the College course and no persons can therefore present themselves as independent candidates.

194. Proposed rule 82 runs—

Registers and accounts.

"82. The following registers shall be kept:—

"(1) Register of admissions and withdrawals for each class.

"(2) Monthly register of attendance, fees and fines for each "class.

"(3) Acquittance roll and pay abstract.

"(4) Library catalogue and register and inventory of "valuable stock.

"(5) Register of scholarships.

"(6) Register of expenditure on contingencies."

195. This is existing rule 100.

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

196. Proposed rule 83 runs—

"83. The register of valuable stock shall be scrutinized every year, "the work being entrusted in rotation to one of the senior members of "the staff, who shall certify to the correctness of the stock and the entries in the register."

197. This is existing rule 101—

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

198. Proposed rule 84 runs—

Miscellaneous.

"84. All civilian students shall provide themselves with the pre- "scribed books and drawing instruments. Strict observance of the "standing orders of the institution as regards attendance, discipline, "etc., shall be required from all."

(Only Civilian students ! !.) G. S. F[ORBES].

199. This is sxisting rule 102 with the omission of the sentence. "They will be non-resident."

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.

I would omit. It seems irrelevant surplusage and see rule 86.
G. S. F[ORBES].

200. Proposed rule 85 runs—

"85. The practical course will extend over a complete year, and
"this period will be reckoned from the dates on which the students join
"their divisions. Students during their practical course shall not be
"under the supervision of the Principal, but officers under whom such
"students are serving will be required in the Public Works Department
"to furnish to the Principal half-yearly reports of their progress in such
"form as may from time to time be prescribed by Government. All
"allowances during the practical course shall be debited to the Public
"Works Department."

^ the

201. This is existing rule 103.

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

202. Proposed rule 86 runs—

"86. The provisions of the Educational rules relating to accommo-
"dation and sanitation, discipline, dress, periodical examinations and
"punishments shall apply *mutatis mutandis* to the college, in so far as its
"special character permits of their application."

May be approved.
C. A. SOUTER—13-3-07.
H. D. TAYLOR—13-3-07.
G. S. F[ORBES].

203. This is existing rule 104.

204. Proposed rule 87 runs—

"87. The Principal shall invariably obtain the previous sanction of
"the Director for any deviation from the prescribed rules."

May be approved.
C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.

205. This is existing rule 105.

Time table.

206. Before concluding this note it appears to be necessary to bring to notice one important point.

207. Existing rules 76 and 77 run—

"76. The hours of attendance at the College shall be from 10 A.M.
"to 1 P.M. and from 2 to 4-30 P.M. The field work and workshop hours
"shall, from time to time, be fixed by the Principal.

"77. The Principal shall submit a time-table annually for the
"approval of the Director. No material change shall be made in the
"time-table or in the general arrangement of the college work without
"his sanction."

In the absence of special circumstances there seems no reason why the College time-table should not as usual be submitted for the scrutiny of the Director of Public Instruction to whom the Principal is subordinate, *cf.* rule 3 on page 2 above. Submitted that the present rule 77 should stand. Rule 76 may perhaps with advantage be omitted. When there is so much out-door work in the college, perhaps no hard and fast rules can be laid down. The changes of the weather must in these circumstances be taken into consideration.

H.D.T.

I agree.
G. S. F[ORBES].

C. A. SOUTER—10-3-07.
H. D. TAYLOR—13-3-07.

208. The Principal of the College observes—

"Existing rule 76 is not and cannot
"be adhered to. Work at the college
"begins daily at 6-30 A.M. for classes
"attending the workshop, survey, field
"work and chemical laboratory. The
"field work classes remain out till 10 A.M.
"and do not commence indoor work till
"12 noon or in some cases till 1 P.M.
"Classes attending for gymnastics and
"drill do so from 6-30 to 8-30 in the
"morning and from 4-10 to 5 in the
"afternoon. In the special conditions of
"the college no hard and fast rule can be
"laid down. A full day's work, however,
"is exacted from each student on every
"working day. Existing rule 77 is
"omitted because the arrangement of the
"time-table is one that may well be left
"to the sole discretion of the Principal
"who is responsible for the working of
"the institution."

209. In view, however, of the recent correspondence in connection with the Law College, it is for consideration whether it will not be better to retain the rule which requires the submission of the time-table to the Director and his sanction to any material alterations therein. Moreover, there appears to be no reason why a rule which obtains in the case of Arts and other Professional Colleges should not be enforced in the case of the College of Engineering also.

210. It has been decided in the notes with Demi-official No. 401-1, dated 23rd February 1907, that the revised rules should be brought into force from 1st April 1907.

K. RANGASWAMI AIYANGAR—6-3-07.

I have noted marginally where comment seems necessary. The rules are generally in accordance with the views of Government as expressed in G.Os., No. 655, Educational, dated 3rd October 1905, and No. 657, Educational, dated 10th October 1906. As a matter of drafting it may perhaps be advisable to adhere throughout to the terminology of rule 1. The changes can be made in this office.

H. D. TAYLOR.

C. A. SOUTER—10-3-07.

The file will now be sent VERY URGENTLY to Chief Engineer, Public Works Department, for remarks, with special reference to rules 56, 61 and 81 and paragraphs 206—8 of the office-note.

2. There seem to be very few contentious points on which specific orders are required. The chief point relates to the prescription of separate minima in certain subjects, *i.e.*, rules 15, 21 and 26.

3. The rules will have to issue in the Gazette of Tuesday 20th as they will come into force from 1st April. [It is presumed that the Superintendent, Government Press, has the matter in type. If not, he may get it into type *in advance* and subject to petty alterations which may be ordered.]

H. D. TAYLOR—13-3-07.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

For remarks.

A. G. ROMILLY—13-3-07.

The provisions of rules 56, 61 and 81 and the view of the Educational Secretary against paragraphs 206—8 of the note are accepted. The inclusion of such a rule as old 77 would leave it open to the Principal to provide in his time-table for special circumstances, although the general scheme of work in normal conditions would go before the Director.

I do not see any other points on which remarks of Public Works Department seem to be called for.

F. J. WILSON—13-3-07.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

Secretary.

C. A. SOUTER—14-3-07.

To the Hon'ble Mr. Forbes, C.S.I.

H. D. TAYLOR—14-3-07.

I have noted marginally on a few points. (Some of the drafting and the English also seems capable of much improvement: but in the time it has been impossible to do more than correct a word or phrase here and there.)

G. S. F[ORBES]—15-3-07.

Please now draft Government Order and get a clean proof of the rules as revised. The Government Order should refer to the question of language examination and number in the classes. Also please look up sharp the points raised by the Honourable Member on pages 33 and 38 (regarding Sir Madhava Rao prize and "guaranteed appointments."

H. D. TAYLOR—16-3-07.

The draft order placed below is submitted for approval.

2. On page 9 of the notes, the Secretary suggested that a separate minimum of 33 per cent. might be assigned for (*a*) Mathematics, (*b*) Engineering and (*c*) Drawing; but according to revised rule 13, the subjects of study have been classed into two branches—Branch I, Mathematics and Science, and Branch II, Engineering; and Drawing is placed under the latter head. According to the old rules, Mathematics, Engineering and Drawing were separate subjects. Under revised rule 13, there are no two separate subjects as "Engineering" and "Drawing"; but under Branch II, Engineering, there are Drawing, Hydraulic Engineering and Mechanical Engineering.

For orders as to whether Hydraulic Engineering and Mechanical Engineering may be substituted for "Engineering" in the addition to proposed rule 15 suggested by the Secretary on page 9 of note file. In the meantime, this rule and proposed rule 21 (now altered into rule 20) have been modified in accordance with the Secretary's orders.

I think so.
H. D. TAYLOR—18-3-07.
A The draft should have been altered accordingly.

In the case of the corresponding rule 26, which relates to the Lower Subordinate class, it does not appear that engineering is one of the subjects of study prescribed for this class—*vide* proposed rule 24 on page 13 of note file, although Drawing and Surveying find a place among the subjects of study. Orders are solicited whether in the case of these students it would be enough to prescribe a separate minimum as regards drawing and surveying only.

H. D. TAYLOR.
G. S. F[ORBES].
B

3. *Page* 33 *of note file.*—Please see the rules for the award of Sir T. Madhava Rao prizes approved in G.O., No. 397, Educational, dated 2nd June 1890. Rule 4 says that one prize of the value of Rs. 20 will be awarded "to the Mahratta Brahman (a native of the Madras Presidency including its Native States) who displays the greatest proficiency in workshop practice, practical surveying or practical chemistry"; and under Rule 5, in the event of there being no Mahratta Brahman displaying proficiency in any of these branches, the third prize will be awarded to the best student in practical chemistry. For orders whether for the second sentence of proposed rule 64 may be substituted the following:—

"One prize will be awarded to a "Mahratta Brahman, who displays "proficiency in workshop practice, practical surveying or practical chemistry."

G.S.F. | This follows rule 4 in G.O., No. 397, Educational, dated 2nd June 1890.
C I take it that in the case of chemistry the best student need not be a Mahratta Brahman.
H. D. TAYLOR.

4. *Page* 38 *of note file.*—The guaranteed appointments referred to in proposed rules 78 and 79 appear to be the appointments mentioned in proposed rules 75 and 76 (altered in the appendix to the draft order in rules 74 and 75). The necessary corrections have been made in the rules.

K. RANGASWAMI AIYANGAR—18-3-07.

Secretary.

C. A. SOUTER—18-3-07.

For approval of draft.

Orders are solicited as to points **A** and **B** *supra*.

As to point **C** the substitution suggested by the office may be made, but we must add "or if there is no Mahratta student displaying proficiency in any of these branches, to the best student in practical chemistry."

But it would be better merely to omit the latter portion of the rule. The first portion refers sufficiently to the "prescribed conditions."

H. D. TAYLOR—18-3-07.

I agree as to **A, B** and **C**: but the office should have sent up appropriate drafting amendments of the rules and in the Government order. The necessary modification with respect to **C** requires no orders from me: as a prize *must* be given in accord with the intentions of the founder.

G. S. F[ORBES]—19-3-07.

Please check and retype draft and check rules 14, 20, 25 and 63.

Is it possible to get these into to-morrow's Gazette? If not they must wait till next week.

H. D. TAYLOR—19-3-07.

The draft has been checked and retyped. Rules 14, 20 and 25 have been modified with reference to Honourable Member's orders. Please see especially the portion marked **A** on page 2 of the draft.

2. It does not appear that it will be possible to get this in to-night's Gazette.

My object was to give as much notice as possible, but the forecast has been published, so it does not much matter.

H. D. TAYLOR—19-3-07.

As the rules are to come into force from 1st April 1907, it will be sufficient if they appear in the Gazette of the 26th instant (next Tuesday's issue).

K. RANGASWAMI AIYANGAR—19-3-07.

In rule 63 better reproduce more completely as in the office-note and my note *supra* and refer to the notification in *Fort St. George Gazette* of June 1897.

Done.

K. RANGASWAMI AIYANGAR—20-3-07.

H. D. TAYLOR—19-3-07.

The previous Government orders should be placed on editors' table.

H. D. TAYLOR—19-3-07.

[G.O., No. 159, Educational, dated 20th March 1907.]

[E.]

1,00 -9-06.

EDUCATIONAL DEPART

CURRENT FILE.

CONTENTS.

From	Number.	Date.	Pages.

[P. T. O. FOR PUT UP PAP

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C. No. 369

EDUCATIONAL DEPARTMENT.

33

Received 190 , *Registered* 18 . 2 . 190 7

LOCAL & MUNICIPAL 17 FEB 1907 SECRETARIAT

Subject.

Submitting for favour of approval rules relating to the constitution and working of the College of Engineering, Madras.

ENCLOSURES.
No. 2
Spare copies

Ref on current No. 7765 of 1906

Station Madras , *Dated the* 13th February 1907.

From (Name) The Hon'ble Mr. T.T. LOGAN, B.A.,

(Designation) Ag. Director of Public Instruction.

To The Secretary to the Government of Madras,
Educational Department.

Sir,

With reference to G.O. No. 657, Educational, dated 10th October 1906, I have the honour to submit herewith in print two copies of the revised rules for the College of Engineering drafted by the Principal, together with such further modifications and explanatory notes made in manuscript as have been considered necessary. A copy of Col. Love's letter, No. 2080/C dated 24th January 1907, is also enclosed for favour of early consideration with special reference to paras 10 and 11 thereof.

2. It will be observed that the Principal's recommendation for the abolition of subject minima in the different

different examinations is not based on the Committee's report. In reply, however, to a reference made to him as to whether it is not necessary to insert a clause in the revised rules so as to provide against the undue neglect of any important individual subject, Col. Love says:-

The Committee lay down in para 8(1) of their First Report that a student must qualify at each sessional examination and at the final examination, and as nothing is said about subject minima, it is assumed that the Committee did not desire to impose these minima in addition to the three which they prescribe. If they did so desire or intend, the effect would be to treble the number of existing minima, which experience shews to be already much too large. Considering that under the new rules, the privilege of appearing as Independent candidates is withdrawn from ex-students, and that there will be three examination minima besides a special minimum in practical surveying, I am of opinion that no further minima should be required. If however my contention is overruled, then I consider that the utmost that should be demanded is a minimum of 33 per cent. of the final totals under Branches I and II separately for the Engineer and Upper Subordinate classes. I do not however recommend this further condition.

3. As stated in the explanatory notes in connection with paras 42-48 of the revised rules, the Chief Engineer, P.W.D., has been addressed on the question of staff allowance to military apprentices. A copy of the Principal's letter on the subject (No. 152/C dated 3rd May 1904) is enclosed for the information of Government.

I have the honour to be,

Sir,

Your most obedient servant,

E. Middlemast

For Director of Public Instruction.

K.P.D.

13-4-07

VERY URGENT.

No. 2080/C.

MADRAS,
24th January 1907.

From

COLONEL H. D. LOVE, R.E,
Principal, College of Engineering,
Madras,

To

THE DIRECTOR OF PUBLIC INSTRUCTION,
Madras.

SIR,

Adverting to your Proceedings Ref. on Cur. No. 7765 of 1906, dated 30th October 1906, I have the honour to submit proposals for the introduction of the scheme of reorganization approved in G.O., No. 657, Educational, dated 10th October 1906, so far as it can be applied to the College on its present status. I also submit proposals for the revision of the College Rules.

2. I consider that the whole scheme may be introduced immediately, with the exception of that portion which provides for separate courses of instruction for the Civil and Mechanical Engineer classes. This portion must, in my opinion, stand over until new workshops and laboratories have been erected and equipped. In the meantime the existing course of instruction for the Engineer class should be retained.

3. On this basis, draft revised rules have been drawn up. They are printed side by side with the existing rules, for facility of comparison, and are now submitted. The reasons for the changes made are exhibited in a third column of Explanatory Notes. A few minor modifications have been effected in the scheme of marks proposed for the several classes by the College Committee, reasons being given for the alterations made.

4. Following the draft revised rules are draft revised syllabuses for the different classes. These are printed side by side with the existing syllabuses.

5. It seems highly desirable that the new scheme should be introduced at the earliest possible date. Under existing rules, a class of

Engineer Subordinates is admitted in July on the results of an Entrance Examination held in April. The latest date for the receipt of applications from candidates is the third Monday in March. The Gazette notification regarding the examination must be published on the 26th February 1907, and it will be necessary for me to know, not later than the 20th February, whether this notification is to be published or not.

6. I hope that it may be found possible to introduce the revised rules with effect from the 1st April 1907. If this can be done, I propose to notify in the Gazette about the beginning of April that 30 First Arts candidates will be selected for the Upper Subordinate class, 30 Matriculates (*i.e.*, a class of half the full strength) for the Lower Subordinate class, and 5 Non-commissioned officers and soldiers of British Regiments for the Military Probationers' class, and that the selected candidates will join the College on the 15th July 1907.

7. In July 1908 and in each succeeding July, classes of full strength will be formed, *i.e.*, an Engineer class of 20, an Upper Sudordinate class of 30, a Lower Sudordinate class of 60 and a Military Probationer's class of 5 students.

8. These proposals, if carried out, will have the following effect on the numbers in the College :—

Years.	No.
January 1907	260
July 1907	325
January 1908	205
July 1908	320
January 1909	200
July 1909	315
July 1910	345

9. The first batches of students entering under the new rules would then complete their courses as under—

Engineer class ..	College course	April 1911
	Practical course	April 1912
Upper Subordinate class.	College course	April 1910
	Practical course	April 1911
Lower Subordinate class.	College course	April 1910

10. In regard to the deputation of a special officer to prepare plans and estimates for the new College at Saidapet, referred to in paragraph 2 of G.O., No. 657, Educational, dated 10th October 1906, I venture to suggest that, in view of the large sum of money which must be expended on workshops and laboratories, it would tend towards both economy and efficiency if Mr. W. H. James were deputed during the ensuing vacation to visit some of the principal Technical College laboratories in England and on the Continent. Under the new rules, the vacation is to extend over two and-a-half months, and as the survey camp must be held this year in July (since the majority of students will be working under the existing scheme), it would be possible for Mr. James to be absent from Madras until the middle of August without prejudice to the College. The laboratories which he might visit are those of

Edinburgh, Glasgow, Manchester, Cambridge and London in Great Britain and those of Berlin, Hanover, Stuttgart, Dresden, Zürich and Münich on the Continent.

11. In conclusion I desire to point out that in order to introduce the new rules for the class or classes joining in July 1907, the rules must be published about the 1st April; and that the decision to do so should be communicated to me not later than the 20th February in time to stop the issue of the usual Gazette notification under the existing rules.

I have the honour to be,

Sir,

Your most obedient servant,

H. D. LOVE, Colonel, R.E.,

Principal.

159 Edul
20-3-07

6

37 b S.B

No. 152/C

College of Engineering,
Madras, 3rd May 1904.

From

Colonel H.D. Love, R.E.,
Principal, College of Engineering,
Madras.

To

The Director of Public Instruction,
Madras.

Sir,

I have received a communication from Corporal Grant, R.F.A., one of the military students of this college representing the insufficiency of the sum of Rs. 80 per mensem which constitutes the normal salary of a military apprentice Overseer. The changed conditions of the soldier's pay in India as well as the increased cost of living, seem to call for consideration of the sufficiency of the amount.

2. The rate of Rs. 80 which was fixed many years ago is laid down in the Public Works Code, Chapter II para 201 under which the allowance to be paid to a military apprentice overseer by the Public Works Department is fixed at such sum as must be added to his regimental pay and allowances to bring the total up to Rs. 80.

3. Some few years ago the soldier's pay was increased by 3½d a day on condition of his foregoing his deferred pay of 2d a day. The increase is now treated as a portion of his military pay and allowances, and it forms part of the sum of Rs. 80 above referred to. The effect is that the military apprentice overseer loses 2d a day instead of gaining 3½d.

4. Under Army Order No. 66 of the 1st April 1902 an increase of pay of 2d a day was sanctioned, and by order No. 196 of 17th March 1904 a further augmentation of from 4d to 7d per day. It is evident that this increase cannot benefit the

apprentice

apprentice Overseer except by so much as it may bring his regimental pay and allowances above Rs 80/-.

5 If a man's regimental pay and allowances exceed Rs 80/- he is worse off as an apprentice overseer than as a college student for he loses the stipend of Rs 11 per mensem, which he draws during his course of study. This will be clear from the following statement which shows the rates to the nearest rupee for a 31 day month taking the service pay for non-commissioned officers at 7 d and for Privates and Gunners at 5 d per diem.

	Regimental Pay & allowances	College stipend	Total while at College	Staff allowance as apprentice	Total as apprentice Overseer	Remarks
Infantry						
Private	51	11	62	29	80	
Corporal	70	11	81	10	80	
Sergeant	86	11	97	"	86	
Cavalry						
Private	55	11	66	25	80	
Corporal	78	11	89	2	80	
Sergeant	94	11	105	"	94	
Artillery R.F.A.&R.G.A.						
Gunner or Driver	56	11	67	24	80	
Bombardier	84	11	95	"	84	
Corporal	90	11	101	"	90	
Sergeant	105	11	116	"	105	
Artillery R.H.A.						
Driver	57	11	68	23	80	
Gunner	59	11	70	21	80	
Bombardier	88	11	99	"	88	
Corporal	94	11	105	"	94	
Sergeant	109	11	120	"	109	

6 The non-commissioned officers among the Military students experience a double hardship in that (1) they draw less as apprentice overseers than as college students (2) they benefit little, if at all, by their Militrary rank during a period in which they draw their pay from their regiments. When the apprentices

join the Public Works Department permanently they are promoted to Sergeant on the unattached list, and draw a uniform salary as under.

Staff Sergeant Public Works Department.

Pay as colour sergeant of Infantry @ 3 S per diem	69	12	0
Extra allowance of 2 d per diem	3	14	0
Messing allowance	4	5	9
Service pay at 7 d per diem	13	9	0
Ration money	10	0	0
Staff salary	85	0	0
	186	8	9

It appears to be not unreasonable that at the time of entering Civil employment, all Military overseers should be placed on an equality ; but so long as they are borne on regimental rolls and carry different ranks their pay in my opinion should vary with rank.

7 Since the time when the allowance of Rs 80 for apprentice overseers was fixed as the minimum suitable for their requirements the cost of living has substantially increased ; and the recent material additions to the soldier's pay are the result of a recognition of the fact. If the apprentice Overseer is to benefit by these additions , and I think there can be no doubt that he should, a fixed stipend to be paid by the Public Works Department should be granted in addition to his regimental pay and allowances. I suggest that such stipend might be Rs 42½ or half the staff pay which he will ultimately receive as an overseer.

8 If these views commend themselves to you and to the Chief Engineer the opinion of the Principal of the Thomason College , Roorkee might be obtained before any alteration in the Public Works Code is decided on.

I have the honour to be, Sir,
&c.

Signed/ H.D. Love, R.E., Principal.

/True Copy/

E.W. Middlemast

For Director of Public Instruction.

Stock Form No. 135
3,700—17-6-05.

Cur No 508 Edl

EDUCATIONAL DEPARTMENT.

Received 190 , *Registered* 2 — 3 — 1907

LOCAL & MUNICIPAL 2-MAR 1907 SECRETARIAT.

Subject.

Submitting two copies of the draft revised syllabuses for the College of Engineering, Madras.

ENCLOSURES.
No.
Spare copies

Ref on Cur No. 7765/6.

Station Madras , *Dated the* 27th February 1907.

From (Name) The Hon'ble Mr. T. T. Logan, B.A.,

(Designation) Ag: Director of Public Instruction,

Madras.

To The Secretary to the Government of Madras,
Educational Department.

Sir,

In continuation of my letter R. C. No. 7765/6, dated 13th February 1907, I have the honour to submit herewith in print two copies of the draft revised syllabuses for the College of Engineering.

I have the honour to be,

Sir,

Your most obedient servant,

A. Rama Lakshmayya

For Director of Public Instruction.

M.S.S.

[Note] Original appendix asked by D.P.I. appears to have been entirely ignored.

CONFIDENTIAL

Appendix

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

READ the following paper :—

COLLEGE OF ENGINEERING, MADRAS.

RULES RELATING TO THE CONSTITUTION AND WORKING OF THE COLLEGE OF ENGINEERING, MADRAS.

PREAMBLE.

The following code of rules relating to the constitution and working of the College of Engineering has been sanctioned by Government :—

OBJECT.

1. The College, which is affiliated to the Madras University, affords theoretical and practical instruction in subjects qualifying for the professions and callings of civil engineer, mechanical engineer, upper subordinate engineer, lower subordinate engineer, surveyor and draftsman, in view of fitting persons for employment in such capacities by Government, by local boards and municipalities, and by other agencies.

2. Students of the higher course in engineering are, at the same time, prepared for the B.E. degree examination of the Madras University.

CONTROL.

3. The responsibility for the discipline and management of the College is vested in the Principal, under the control of the Director of Public Instruction.

BOARD OF VISITORS.

4. A Board of visitors, consisting of a President and three members, shall be constituted to advise the Director of Public Instruction and the Government. The Board shall be composed as follows :—

President—The Chief Engineer, Public Works Department.

Members—The Chief Engineer, Madras Railway Company.
The Chief Engineer, Port Trust.
The President of the Faculty of Engineering of the Madras University, or a member of the Faculty to be nominated by the Syndicate if the President is the Chief Engineer, Public Works Department, or is the Principal of the College.

Secretary—The Principal of the College.

STAFF.

5. The staff shall consist of a Principal, two professors of engineering, a professor of mathematics and science, and an adequate number of lecturers and demonstrators. There shall also be a workshop instructor with foremen assistants, and an instructor in drill and gymnastics. Special lecturers may also, when necessary, be employed with the sanction of Government.

6. The Principal and professors of engineering shall be engineers, civil or military, and the professor of mathematics and science shall be preferably an engineer.

College Year, Vacations and Holidays.

6. 7. The College year shall consist of—

(*a*) A first term extending from about the 15th July to about the 10th October. The last ten days of the term shall be devoted to inspection tours.

(*b*) A second term extending from about the 11th October to about the end of April. A Survey camp lasting about a month shall be formed immediately after the Christmas holidays.

(*c*) A vacation extending from about the 1st May to about the 14th July as may be notified by Govt

7. 8. When any of the above dates fall on a Saturday or Sunday they may be varied at the discretion of the Principal to an extent not exceeding two days.

8. 9. The gazetted holidays for Christmas and Easter shall be enjoyed, and the casual holidays allowed by Chapter VII of the Educational Rules shall apply as far as the special character of the College may permit.

9. 10. The first and second terms together constitute a College Session.

Classes.

10 11. The College shall contain the following classes :—

(i) *Engineer class*—for the training of (*a*) civil engineers, and (*b*) mechanical engineers.

(ii) *Upper Subordinate class*—for the training of upper subordinates for the Public Works Department, Revenue Department, Local Boards and Municipalities.

(iii) *Lower Subordinate class*—for the training of lower subordinates, surveyors and draftsmen for the Public Works Department, the Survey Department, Revenue Department, Local Boards, Municipalities, railways, etc.

Courses of Instruction.

(1) *Engineer Class.*

[Note.—A revised course for the Engineer class will be published later. For the present, pending the construction of new laboratories and workshops, the course will be as follows :—]

11. 12. The course of instruction shall extend over four years, of which three shall be spent in the College and the fourth chiefly on works. The course in the College shall be both theoretical and practical. Theoretical instruction shall be conveyed by lectures; while the practical work shall consist of surveying in the field, drawing, and work in the workshops and laboratories. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total. Students who desire to become Civil Engineers shall spend the final year in a Public Works division; those who wish to become Mechanical Engineers shall spend it in an engineering workshop.

12. 13. The subjects of study and the marks assigned to each shall be as follows :—

		Marks.
Branch I.—Mathematics and Science.		
1 Algebra (150), 2 Geometry (200), 3 Mensuration (150), 4 plane trigonometry (150), 5 calculus (250), 6 Mechanics (300), 7 hydro-mechanics (200), 8 heat (200), 9 chemistry (300)		1,900
Branch II.—Engineering.		
1. Drawing— Geometrical and Perspective (120), freehand and model (80), machine (200), building (300), estimating (200), practical work (300)	1,200	
2. Applied mechanics	400	
3. Building materials	100	
4. Building construction	200	
5. Hydraulic engineering	200	
6. Mechanical engineering	200	
7. Workshop practice, etc.	400	1,500
8. Surveying— Chain compass and plane table (150), level (150), theodolite (150), topographical drawing (200), practical work (350)	1,000	
		3,700
Physical Exercises		400
		6,000

13. ~~14.~~ Of the total marks, 4,400 shall be awarded by the Board of Examiners for examination work, and 1,600 by the College Staff for practical work and physical exercises. Sessional examinations shall be held at the end of the first and second years, at which portions of the above subject shall be finally disposed of by the Board of Examiners. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying.

14. ~~15.~~ In order to pass an examination, a student must obtain ~~half~~ the aggregate marks awardable at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships, prizes or guaranteed appointments. No student shall be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed.

15. ~~16.~~ Students shall be expected to present themselves for the first examination in engineering of the Madras University at the end of their second year of study, and for the B.E. degree examination towards the end of their practical course.

16 ~~17.~~ Students who are successful at the College final examination shall proceed to the practical course. Those who elect to become Civil Engineers shall be attached to a Public Works division where large works are in progress, and will be regularly instructed in the preparation of materials, the practical details of construction, the management of labour, and the system of accounts. Those who elect to become Mechanical Engineers will proceed to the Public Works workshops. One mechanical engineer student will be permitted each year to join the Madras Railway Locomotive shops at Perambúr, the concession being offered in the order of merit at the final examination. The premium will be Rs. 500, of which half will be defrayed by the Educational Department, the other half being met by the student. The premium will cover a course of two years, of which one year is obligatory. Other mechanical engineer students may attend at Perambúr on payment of the full premium. All students shall receive lessons in riding during the practical course.

(ii) *Upper Subordinate Class.*

17. ~~18.~~ The course of instruction shall extend over four years, of which three shall be spent in the College and the fourth on works. The course in the College shall be both theoretical and practical. Theoretical instruction shall be conveyed by lectures, while the practical work shall consist of surveying in the field, drawing, and work in the workshops. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total.

18. ~~19.~~ The subjects of study and the marks assigned to each shall be as follow:—

Branch I.—Mathematics.

	Marks.	
1. Arithmetic (150), 2. Algebra (150), 3. Geometry (150), 4. Mensuration (150), 5. Plane Trigonometry (150) ..	750	
Branch II.—Engineering.		
1. Drawing.—Freehand and model drawing (100), geometrical drawing (300), machine drawing (150), building drawing and estimating (550)	1,100	
2. Applied mechanics	600	
3. Construction	500	
4. Hydraulic engineering	400	
5. Mechanical engineering	300	
6. Surveying.—Surveying with chain, compass and plane table (250), levelling (250), theodolite surveying (250) ..	750	
		3,650
Workshop Practice		300
Physical Exercises		300
		5,000

19. ~~20.~~ Of the total marks, 3,200 shall be awarded by the Board of Examiners for Examination work, and 1,800 by the College Staff for practical work and physical exercises. A sessional examination shall be held at the end of each year at which portions of the above subjects shall be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying.

21. In order to pass an examination a student must obtain half the aggregate marks awardable at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships, prizes or guaranteed appointments. No student will be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed.

22. Students who are successful at the final examination shall be attached for one year to Public Works divisions where large works are in progress, and shall be regularly instructed in the preparation of materials, the practical details of construction, the management of labour, and the system of accounts. They shall receive lessons in riding during the practical course.

(iii) *Lower Subordinate Class.*

23. The course of instruction shall extend over three years. Theoretical instruction shall be conveyed by lectures, while the practical work shall consist of surveying in the field, drawing, and work in the workshops. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total.

24. The subjects of study and the marks assigned to each shall be as follows :—

	Marks.
(1) Drawing—Freehand and model drawing (200), Geometrical drawing (300), Machine drawing (250), Building drawing and estimating (600)	1,350
(2) Applied Mechanics	400
(3) Construction	550
(4) Surveying—Surveying with chain, compass and plane table (400), levelling (400), theodolite surveying (400)	1,200
Workshop Practice	250
Physical Exercises	250
	4,000

25. Of the total marks, 1,750 shall be awarded by the Board of Examiners for examination work, and 2,250 by the College Staff for practical work and physical fitness. A sessional examination shall be held at the end of each year at which portions of the above subjects shall be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying.

26. In order to pass an examination a student must obtain half the aggregate marks awardable at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships or prizes. No student will be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed.

STRENGTH OF CLASSES.

28. The number of students to be admitted annually shall ordinarily be limited to 20 in the Engineer class, 30 in the Upper Subordinate class, and 60 in the Lower Subordinate class.

ADMISSIONS AND WITHDRAWALS.

28. All applications for admission shall be submitted in a prescribed form.

29. Admission shall be once a year, on the 15th July (unless that date falls on a Saturday or Sunday, when the students shall join on the following Monday) for all classes.

30. The Principal may refuse admission to any candidate whose previous conduct has not been satisfactory. His order shall be subject to appeal to the Director, whose decision shall be final.

31. Withdrawals in the case of scholarship-holders shall, except for good and sufficient reasons, be allowed only on completion of the course for which the scholarships have been awarded.

QUALIFICATIONS FOR ADMISSION.

(i) *Engineer Class.*

32. Candidates must have passed the B.A. degree examination of the Madras University with Mathematics or Physical Science (II-A) as an optional subject or an examination accepted

by Government as equivalent thereto, and must be under 22 years of age on the 30th June of the year of admision. The number of candidates admitted annually shall not ordinarily exceed twenty. If the number of applicants exceeds twenty, admission shall be regulated by selection by the Principal. Persons who present themselves for the B.A. degree examination in Mathematics or Physical Science (Group II-A of Part II) during the year of application for admission to the College may register their names but their eligibility for admission will be contingent on their passing the examination.

33. Candidates otherwise qualified, but whose age exceeds the maximum above laid down may be admitted with the sanction of the Director of Public Instruction, if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes.

34. The fee for registration for admission shall be Rs. 5, which will under no circumstances be refunded. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(ii) *Upper Subordinate Class.*

35. Candidates must have passed the First Examination in Arts or Intermediate examination of the Madras University or an examination accepted by Government as equivalent thereto and must be under 22 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed thirty. If the number of applicants exceeds thirty, admission shall be regulated by selection by the Principal. Persons who present themselves for the Intermediate examination during the year of application for admission to the College may register their names, but their eligibility for admission will be contingent on their passing the examination.

36. Candidates otherwise qualified, but whose age exceeds the maximum above laid down, may be admitted, with the sanction of the Director of Public Instruction, if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes.

37. The fee for registration for admission shall be Rs. 4, which will under no circumstances be returned. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(iii) *Lower Subordinate Class.*

38. Candidates must have passed the Matriculation examination of the Madras University, or an examination accepted by Government as equivalent thereto, and must be under 22 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed sixty. If the number of applicants exceeds sixty, admission shall be regulated by selection by the Principal. Persons who present themselves for the Matriculation examination during the year of application for admission to the College may register their names, but their eligibility for admission will be contingent on their passing the examination.

39. Candidates otherwise qualified, but whose age exceeds the maximum above laid down, may be admitted, with the sanction of the Director of Public Instruction if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes.

40. The fee for registration for admission shall be Rs. 3, which will under no circumstances be returned. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(iv) *All classes.*

41. The selected candidates of all classes shall join the College on the 15th July (unless that day falls on a Saturday or Sunday, when they shall join on the following Monday), and shall each on that day deposit with the Principal—

(*a*) a sum of money, to be drawn against for instruments and books, which shall be for the engineer class Rs. 120, for the upper subordinate class Rs. 100, and for the lower subordinate class Rs. 80;

(*b*) a health certificate from a gazetted Government Medical officer to the effect that the candidate is fit for the outdoor work of the Public Works department, and that he has had small-pox or has been vaccinated;

(*c*) his University diploma or certificate;

(*d*) testimonials of good character covering the last two years;

(*e*) satisfactory evidence of age;

(*f*) a leaving certificate from his last college or school.

Military Students.

42. Non-commissioned officers and soldiers of His Majesty's British Service will, to the number of five annually, be admitted to the College. They must hold a first-class Army School certificate, and must ordinarily have been brought up in Great Britain or Ireland, or in some non-tropical British Colony. If more than five candidates apply, selection will be made by the Principal, who will give preference to those who have practised a trade. Candidates must be of thoroughly good character, well recommended by their commanding officers, and under 28 years of age on the 30th June of the year of admission. They must have had not less than two years' service prior to the date of admission to the College. Applications will be received by the Principal up to the last day of May. Each candidate's application shall be forwarded by his commanding officer to the Principal, and shall be accompanied by the following documents relating to the candidate—

(*a*) extract from regimental defaulter's and court-martial books for the whole period of service;

(*b*) extract from company defaulter's book for the preceding two years;

(*c*) certificate that the candidate was ~~born and~~ brought up in Great Britain or Ireland, or in some non-tropical British Colony;

(*d*) statement of the trade followed by the candidate before enlistment;

(*e*) statement that the candidate holds a first-class Army School certificate;

(*f*) statement whether the candidate is married or unmarried;

(*g*) certificate of good eye-sight, sound health and unimpaired constitution, signed by a medical officer in the following form:—

I certify that I have carefully examined A.B., and that to the best of my belief his eye-sight is good and he has no disease, constitutional affection or bodily infirmity, unfitting him, or likely to unfit him, for out-door employment as an Upper Subordinate in the Public Works Department.

Name.
Designation.

43. The selected candidates shall join the College on the 15th July, and bring with them—

(*a*) a descriptive roll;
(*b*) the record of service;
(*c*) a last-pay certificate;
(*d*) last clothing and bedding certificates;
(*e*) a certified list of clothing and necessaries in their possession when quitting their regiment;
(*f*) a certificate of the carriage, if any, furnished to them at the Government expense, etc., on leaving their regiments to proceed to Madras.

44. When not furnished with carriage to enable them to join, a certificate shall be given to this effect, and they shall then receive travelling allowance at the rate of one anna per mile. A double allowance shall be granted to married men if they are accompanied by their wives.

45. The selected candidates shall on joining attend as probationers for one year during which they will prepare for a College qualifying examination in Mathematics, English and Elementary Drawing. Probationers who fail to pass this examination shall at once revert to their corps. Those who pass shall join the first year Upper Subordinate class as regular students.

46. While studying at the College Military students shall be considered as doing duty, and shall remain on the strength of their respective regiments, without prejudice to their promotion and other advantages until they are appointed to the Public Works Department. They shall be provided with barracks and married quarters at the College, shall wear the undress or fatigue uniform of their rank and regiment, and shall be under the command of the Principal, or in his absence, of the Superintendent of Military students. They shall receive, whilst at the College, the same pay as with their regiments, including good-conduct pay when entitled to it, together with rations or compensation in lieu, and a College allowance of Rs. 11 per mensem to cover extra messing and other expenses. They shall be exempted from the payment of College fees, and shall be supplied *gratis* with drawing instruments and the text-books in use. They shall not compete for civil scholarships, but shall be eligible for medals and prizes. The Principal may remand any student to his regiment for insufficient progress or unsatisfactory conduct.

47. Military students who pass the final examination at the end of the course of study shall be appointed Apprentice Overseers for one year. During this period they shall retain their position as students, and shall continue to be borne on College and regimental lists. Their Military pay and clothing shall be drawn from the Military Department by the Executive Engineers of the divisions to which they are attached. The Apprentices shall be provided with free quarters or compensation in lieu, and shall receive a staff allowance ~~of Rs. 49½ per mensem~~*. Married men shall receive in addition the usual regimental allowances for wife and children

* They shall, when posted to hill stations, also draw a local allowance of Rs. 10 per mensem.

Sufficient to bring their total Consolidated pay upto Rs 80* per mensem

Any apprentice who is unfavourably reported on shall revert to his corps. Military apprentices shall receive travelling allowance at the rate of two annas per mile, or in case of portions of the journey performed by railway, at one anna and a half per mile for the journey from Madras to the site of the work to which they are posted, and for all journeys performed on transfer during their apprenticeship.

~~48.~~ At the expiration of the year of apprenticeship the Military apprentices shall, in the order of merit determined by the College final examination and to the extent of the requirements of the Public Works Department, be appointed to the permanent establishment as first-grade Overseers. Any apprentices who may not be required shall revert to their corps, but shall be eligible for employment in the Public Works Department in a subsequent year, or in the Military Works Service at any time. An outfit allowance of Rs. 150 shall be granted to Military apprentices on their appointment to the Public Works Department.

FEES.

~~49.~~ *Tuition fees.*—The following shall be the fees payable in advance by students while at the College. Fees shall, under no circumstances, be returned after a student has been admitted to the institution :—

Class.	For the full theoretical course.	Sessional rate.	Monthly rate.
	Rs.	Rs.	Rs.
Engineer class	360	130	12
Upper Subordinate class	180	65	6
Lower Subordinate class	100	37½	4

~~50.~~ *Special fees.*—A contribution of Rs. 4 per annum shall be made by each student to the College Recreation Club. The riding course fee for students of the Engineer and Upper Subordinate classes shall be Rs. 15. The premium payable by mechanical engineer students at Perambúr is laid down in ~~paragraph 17.~~ rule 16

~~51.~~ *Examination fees.*—Students shall pay fees at the following rates for admission to the College Examinations :—

	Rs.
Engineer class	20
Upper Subordinate class	15
Lower Subordinate class	10

These fees, which cover in each case all the examinations held during the course, shall be paid before the commencement of the final examination.

SCHOLARSHIPS, STIPENDS AND PRIZES.

(i) *Engineer Class.*

~~52.~~ *Government scholarships.*—Two scholarships of the monthly value of Rs. 15 each will be annually awarded in each of the three class-divisions. At the commencement of the first year of study they will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the monthly value of Rs. 15 will be awarded annually in each class-division by the Director of Public Instruction on the recommendation of the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan or Indian Christian, or a European or Eurasian, in the order named. One scholarship of Rs. 20 per mensem, tenable for three years, may, under Gazette Notification dated 11th August 1902, be awarded annually to a European or Eurasian student at the beginning of the course of study.

~~53.~~ *Other scholarships.*—The Government of Mysore awards Engineering scholarships annually of Rs. 30 per mensem tenable for three years. The University scholarships founded by the Maharajas of Travancore and Cochin, of the value of about Rs. 30 per mensem, tenable for the minimum period necessary to qualify for the B.E. degree, may be held by students of the Engineer class. All these scholarships are tenable only by students who are subjects of the States concerned.

~~54.~~ Scholarships may be reduced or forfeited for misconduct, idleness, or want of progress.

Special Prizes.

63

64. Three "Sir Madhava Rau" prizes of the value of Rs. 20 each will be given annually, under certain prescribed conditions, for proficiency in practical work. ~~When possible, one prize will be awarded to a Mahratta Brahman.~~ ~~One of these prizes~~ will be given to the Mahratta Brahman who displays the greatest proficiency in workshop practice, practical Surveying or practical Chemistry subject to the conditions ~~prescribed~~ specified in notification No. 49 ~~dated~~ published at page 409 of Part I ~~of~~ of the Fort St. George Gazette dated 17th June 1890.

Awarded as one of the two prizes

55. A gold medal will be awarded to the student who passes highest at the final examination. Prizes will be given to students who display proficiency in special subjects.

56. During the year of practical training subsistence allowances of Rs. 50 per mensem for Europeans and Eurasians, and Rs. 25 per mensem for Indians shall ordinarily be granted; but these amounts shall be increased to Rs. 60 and Rs. 37½ per mensem respectively in the case of students posted to hill stations. The grant of subsistence allowance shall be contingent on the good conduct and satisfactory progress of the student; and on proof of misconduct or idleness the allowance may be withdrawn by the Principal on the recommendation of the Executive Engineer or the officer in charge of workshops. Travelling allowances to students joining or on the works shall be drawn at the rates sanctioned for officers of the third class under the Civil Service Regulations.

(ii) *Upper Subordinate Class.*

57. *Government scholarships.*—Two scholarships of the monthly value of Rs. 10 each will be awarded annually in each of the three class-divisions. At the commencement of the first year of study the scholarships will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the monthly value of Rs. 10 will be awarded annually in each of the three class-divisions by the Director of Public Instruction on the recommendation of the Principal, to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan, or Indian Christian, or a European or Eurasian, in the order named. One scholarship of Rs. 15 per mensem, tenable for three years, may, under Gazette Notification dated 11th August 1902, be awarded annually to a European or Eurasian student at the beginning of the course of study.

58. *Walker scholarship.*—A scholarship of the value of about Rs. 13 per mensem is tenable for three years by a student who is a native of the Malabar, South Canara or Nilgiri district, and who possesses a fair knowledge of Malayalam or Canarese.

59. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

60. A silver medal will be awarded to the student who passes highest at the final examination. Prizes will be given to students who display proficiency in special subjects. The "Rogers" prize of the value of about Rs. 20 shall be given annually in books to the silver medallist of the year.

61. During the practical course subsistence allowances of Rs. 30 per mensem for Europeans and Eurasians, and Rs. 20 for Indians shall ordinarily be granted; but these amounts shall be increased to Rs. 40 and Rs. 30 per mensem respectively in the case of students posted to hill stations. The grant of subsistence allowance shall be contingent on the good conduct and satisfactory progress of the student; and on proof of misconduct or idleness the allowance may be withdrawn by the Principal on the recommendation of the Executive Engineer. Travelling allowances to students joining or on the works will be drawn at the rates sanctioned for officers of the third class under the Civil Service Regulations.

(iii) *Lower Subordinate Class.*

62. Two scholarships of the monthly value of Rs. 8 each will be awarded annually in each of the three class-divisions. At the commencement of the first year of study the scholarships will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the monthly value of Rs. 8 will be awarded annually in each of the three class-divisions by the Director of Public Instruction on the recommendation of the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan, or Indian Christian, or a European or Eurasian, in the order named. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

63. A bronze medal will be awarded to the student who passes first at the final examination.

Special Prizes.

64. Three "Sir Madhava Rau" prizes of the value of Rs. 20 each will be given annually, under certain prescribed conditions, for proficiency in practical work. When possible, one prize will be awarded to a Mahratta Brahman.

(6) *Stipends in Workshops.*

65. Four stipends of the monthly value of Rs. 6 for the first year, Rs. 7 for the second year, and Rs. 8 for the third year will be awarded annually to young men who have passed the elementary technical examination in carpentry or blacksmith's work, and who join the College workshop with a view to be trained as teachers in technical or industrial schools or in school workshops for manual training. The course shall extend over three years during which time the students shall be prepared for the highest technical examination in cabinet-making, or carpentry, or fitter's work. The students shall ordinarily work in the workshop for thirty-five hours per week and will be allowed one month's vacation and the ordinary authorized holidays. The stipends may be reduced or forfeited for misconduct, idleness or want of progress. The stipendiaries shall be required, if need be, to serve as teachers for two years, and to submit half-yearly reports as to how they are employed for three years after leaving the workshops.

LEAVE AND DISMISSAL.

66. Students may obtain leave of absence by previous application to the Principal.

67. Scholarship-holders shall forfeit their scholarships during any period, however short, of absence without leave, and shall be further liable to have their scholarships withdrawn, if they absent themselves without leave for five consecutive working days.

68. In cases of severe illness certified to by a competent medical authority, sick leave with scholarship may be given by the Principal for a fortnight. If such leave is granted for a period exceeding a fortnight, the excess period shall be leave without allowances.

69. Any student who has obtained admission into the College by means of a false certificate or by false representations of any kind, or who has been found guilty of grave misconduct, shall be summarily dismissed; the fact of such dismissal and the reasons for it being at once reported to the Director.

70. Leave may be granted during the practical course for a period or aggregate of periods not exceeding one month per annum. Such leave shall not entail forfeiture of stipend, but any leave in excess of one month shall involve loss of stipend, and the practical course shall be extended by a period equal to the excess over one month per annum of the leave granted.

BOARD OF EXAMINERS.

71. All sessional and final examinations shall be conducted by a Board of Examiners, consisting of a President and two members appointed by Government on the recommendation of the Director of Public Instruction for a term of three years. The President and members shall be engineers. Two members of the College professional staff shall be advisory members of the Board. When necessary, the Board may, with the sanction of Government, employ assistant examiners. The decision of the Board of Examiners in regard to the qualifications of any student appearing for examination shall be final. The names of all students declared by the Board to have passed a final examination shall be published in the *Fort St. George Gazette*. After completing the annual examinations, the Board shall submit a report to Government, through the Director of Public Instruction, summarising the results of the examinations. It may record in the report any observations of a general nature bearing on the working of the college, or make any suggestions it may consider expedient, provided such observations or suggestions arise naturally out of the examination work which the Board has to perform. The report shall be signed by the President and members of the Board.

DIPLOMAS AND CERTIFICATES.

72. *Engineer and Upper Subordinate Classes.*—On the completion of the course in the College, a provisional certificate signed by the Principal and the President of the Board of Examiners shall be issued showing that the candidate has passed the final examination. On the satisfactory completion of the practical course a diploma, signed by the Principal and the Director of Public Instruction, shall be issued, setting forth the qualifications of the student for employment as a Civil Engineer, a Mechanical Engineer, or as an Upper Subordinate.

73. A student who has passed the final examination of the upper subordinate class, and who elects not to proceed to the practical course shall be granted a certificate of qualification as a Lower Subordinate.

74. *Lower Subordinate Class.*—On the completion of the course, a certificate signed by the Principal and the President of the Board of Examiners shall be issued, stating that the student has passed the final examination and is qualified for employment as a Lower Subordinate or as a Surveyor or a Draftsman.

EMPLOYMENT OF PASSED STUDENTS.

75. *Engineers.*—One appointment as apprentice engineer in the Public Works Department shall be conferred annually on the student who passes highest at the final examination. The apprenticeship shall commence on the 1st July following the final examination and shall ordinarily extend over twelve months, when the apprentice, provided he has fulfilled the

conditions of paragraph 11, chapter II, volume I, Public Works Department Code, shall be brought on the permanent establishment of the Public Works Department, Provincial Service, as third-grade Assistant Engineer. Other Engineer students, who have satisfactorily completed the practical course, shall be eligible for appointment to the temporary Upper Subordinate establishment of the Public Works Department, whence transfers may be made to the permanent establishment to fill existing vacancies on the recommendation of Superintending Engineers. Fully qualified Engineer students may also be appointed Assistant Engineers under Local Boards.

~~76.~~ *Upper Subordinates.*—One appointment annually as Overseer, third grade, in the permanent Upper Subordinate establishment of the Public Works Department shall be conferred on the civilian Upper Subordinate student who passes highest at the final examination, provided he has satisfactorily completed his practical course and provided a vacancy exists for such appointment. Other civilian Upper Subordinate students, who have satisfactorily completed the practical course and for whom there are vacancies, shall be eligible for appointment to the temporary Upper Subordinate and Lower Subordinate establishments of the Public Works Department, whence transfers may be made to the permanent Upper Subordinate establishment to fill existing vacancies on the recommendation of Superintending Engineers. No person will be eligible for appointment to the permanent Upper Subordinate establishment unless he be a fully qualified Engineer or Upper Subordinate. Appointments as Delta Superintendent, Minor Irrigation Overseer and as Overseer to District Boards and Municipalities are also open to qualified Upper Subordinates.

Military apprentices required for the Public Works Department will be appointed first-grade Overseers under ~~paragraph 48~~ of these rules. In alternate years, one appointment to the Engineer establishment, Provincial Service, will be offered to a senior selected Upper Subordinate of the Public Works Department.

~~77.~~ *Lower Subordinates.*—Qualified Lower Subordinates will be appointed to the Public Works Department as Sub-Overseers and as Draftsmen as vacancies occur. They will be eligible also for employment as Channel Superintendent in the Public Works Department and as Deputy Surveyor in the Survey Department. When the services of temporary men are required for special surveys not undertaken by the Public Works subordinate staff, the Public Works officers in charge are instructed to select for such employment none but qualified Lower Subordinates of the College.

~~78.~~ Students of the Engineer and Upper Subordinate classes who pass sufficiently high to merit ~~guaranteed~~ appointments shall, before appointment, produce certificates of physical fitness for the work of the Public Works Department. The medical examination for such certificates shall be held at the end of the practical course. Other qualified students will, on appointment to the Public Works Department, be required to produce certificates of physical fitness under the ordinary rules of the public service.

~~79.~~ The ~~guaranteed~~ appointments referred to are reserved for statutory natives of India, provided that natives of pure Asiatic descent shall be admitted only is their parents or guardians are domiciled in the Madras Presidency or the States of Travancore, Cochin, Puddukkottai, Sandur, Banganapalle and Mysore.

~~80.~~ It shall be the duty of the Principal to render all reasonable assistance to passed students who may not be appointed to the Public Works Department, in seeking employment under Local Boards and Municipalities and other agencies. With this ~~view~~ lists of qualified men, with remarks as to their attainments, conduct, etc., shall be circulated annually to Local Boards and Municipalities, with recommendations that they may be employed in suitable posts when opportunities offer, and the attention of ~~such Boards~~ shall be invited to G.O., No. 2773 L., dated 12th December 1893.

Casual Students.

~~81.~~ Applicants who possess sufficient general education to follow the instruction given, who produce certificates of good health and good character, make the ~~usual~~ deposit and pay the prescribed fees, may be admitted as casual students to the Engineer class, provided that accommodation is available for them. They may present themselves for the sessional and final examinations, and if they pass they will receive the provincial certificates issued to successful students at the end of the College course; but they shall not be eligible for ~~guaranteed~~ appointments or for scholarships or prizes, or for the free practical course.

Registers and Accounts.

~~82.~~ The following registers shall be kept:—

(1) Register of admissions and withdrawals for each class.
(2) Monthly register of attendance, fees and fines for each class.
(3) Acquittance roll and pay abstract.
(4) Library catalogue and register and inventory of valuable stock.
(5) Register of scholarships.
(6) Register of expenditure on contingencies.

82. The register of valuable stock shall be scrutinised every year, the work being entrusted in rotation to one of the senior members of the staff, who shall certify to the correctness of the stock and the entries in the register.

MISCELLANEOUS.

84. All civilian students shall provide themselves with the prescribed books and drawing instruments. Strict observance of the standing orders of the institution as regards attendance, discipline, etc., shall be required from all.

85. The practical course will extend over a complete year, and this period will be reckoned from the dates on which the students join their divisions. Students during their practical course shall not be under the supervision of the Principal, but officers under whom such students are serving will be required in the Public Works Department to furnish to the Principal half-yearly reports of their progress in such form as may from time to time be prescribed by Government. All allowances during the practical course shall be debited to the Public Works Department.

86. The provisions of the Educational Rules relating to accommodation and sanitation, discipline, dress, periodical examinations and punishments shall apply *mutatis mutandis* to the College, in so far as its special character permits of their application.

87. The Principal shall invariably obtain the previous sanction of the Director for any deviation from the prescribed rules.

86. The Principal shall submit a time table annually for the approval of the Director. No material change shall be made in the time table or in the general arrangement of the College work without his sanction.

Educational
DEPARTMENT.

NOTES.

159
20-3-7

21

Rules Connected with

Educational Department.

Govt. 159 Edl dy 20-3-07

37 P.

C. No.367, from the Director of Public Instruction, No.7765/06, d/15-2-1907.

As to orders Govt. Edl dy 23-2-07
Govt. Edl dy 27-12-06
" 657 dy 10-10-06
" 655 dy 3-10-06
" 7548 dy 24-12-04
" 7233 dy 13-12-04
" 3773. Read dy 12-12-03
" 397 Edl dy 2-6-90

Subject.

Submitting for approval, revised rules relating to the constitution and working of the College of Engineering, Madras.

Object.

The proposed rule 1 runs

1. The College, which is affiliated to the Madras University, affords theoretical and practical instruction in subjects qualifying for the professions and callings of civil engineer, mechanical engineer, upper subordinate engineer, lower subordinate engineer, surveyor and draftsman, in view of fitting persons for employment in such capacities by Government, by local boards and municipalities, and by other agencies.//

2. The existing rule says

1. The college, which is affiliated to the Madras University, affords theoretical and practical instruction in subjects qualifying for the professions and callings of engineer, engineer subordinate, surveyor and draftsman, in view of fitting persons for employment in such capacities by Government, by local boards and municipalities, and by other agencies.//

Paras 12+14 on Page 5 of G.O. No. 655 Edl. dated 3rd October 1905. A

It may stand. All are engineers of sorts.
Clerk 7.3.7. HDS 12.3.07

3. This rule has been altered with reference to the recommendations of the Committee in regard to the bifurcation of the Civil and Mechanical Courses of the Engineer class and to the alteration in designation of the "Engineer Subordinate class" into "Upper Subordinate class" and of the suboverseer and surveyor and draftsman classes which are to be amalgamated as one into "Lower subordinate class". It does not however appear that the word "Engineer" occurring after "Upper Subordinate" and "Lower Subordinate" in the revised rule is necessary.

Rev 2

22

253

4. The proposed rule 2 runs

"2. Students of the higher course in engineering are, at the same time, prepared for the B.E. degree examination of the Madras University."

for 2 of the Tabularstatt. E

5. This is the same as the existing rule 2 and calls for no remarks.

HSS
12.3.07

Cas
7.3.7.

543. P

Control.- 6. The proposed rule 5 runs

> 3. The responsibility for the discipline and management of the College is vested in the Principal, under the control of the Director of Public Instruction."

Page 2 of the Tabular Statt. E 7. This is the same as existing rule 5.

Ord
23.7.

1032
12.3.07.

1032
12.3.07

8. The proposed rule 4 runs

Board of Visitors

Insert "for the present after" shall"

87 Madras.

> 4. A Board of visitors, consisting of a President and three members, shall be constituted to advise the Director of Public Instruction and the Government. The Board shall be composed as follows :—
>
> *President.*—The Chief Engineer, Public Works department.
>
> *Members.*—The Chief Engineer, Madras Railway Company.
>
> The Chief Engineer, Port Trust.
>
> The President of the Faculty of Engineering of the Madras University, or a member of the Faculty to be nominated by the Syndicate if the President is the Chief Engineer, Public Works department, or is the Principal of the College.
>
> *Secretary.*—The Principal of the College. "

9. This rule is new. The constitution above of the Board of Visitors was approved in paragraph 12 of G.O. No.657 Edl., dated dated 10th October 1906.

Das 7.3.7

12-3-07

87

Read

E.D. Staff.

Staff.

10. The proposed rules 5 and 6 run

"5. The staff shall consist of a Principal, two professors of engineering, a professor of mathematics and science, and an adequate number of lecturers and demonstrators. There shall also be a workshop instructor with foremen assistants, and an instructor in drill and gymnastics. Special lecturers may also, when necessary, be employed with the sanction of Government.

6. The Principal and professors of engineering shall be engineers, civil or military, and the professor of mathematics and science shall be preferably an engineer."

Omit 6 — Edmundson

Cancelled 8/7

Take consequential action Mears

11. These rules replace rules 4 to 7 of the existing rules which are

"4. The staff shall consist of a principal, a professor of civil engineering, a professor of mechanical engineering, a professor of mathematics, an instructor in surveying and drawing, an instructor in civil engineering, an instructor in mechanical engineering, and eight assistants. There shall also be a workshop instructor with foremen assistants and an instructor in gymnastics.

5. Special lecturers may also, when necessary, be employed with the sanction of Government.

6. The principal shall be an engineer, civil or military.

7. The professor of civil engineering shall be a third-grade executive engineer or first-grade assistant engineer of the Public Works department, the professor of mechanical engineering shall be an officer of the Indian Educational Service and the professor of mathematics shall be an officer either of that service or of the Provincial Educational Service."

12. The Principal of the College as follows observes with reference to the proposed rules 5 and 6:—

Vide page 3 of the Tab. statt. E

Page 6 of go. No. 655 Edn. dt. 30-10-05 A

Have.

or

"5 & 6. The Government has not yet dealt with the question of staff and the modes of recruitment. The Committee however, (First Report, para. 16) recommend that the professor of mathematics should be an engineer. The greater possibility there is of the professors exchanging work with one another the more convenient it will be for the College. Interchange will be facilitated if all the professors are engineers, and the teaching of mathematics will become more practical and less academical. In the absence of a professor of science, the science teaching must be undertaken by one or more of the professors. As the time spent on mathematics will be small as compared with engineering it is proposed that one of the professors be called professor of mathematics and science.

The assistants to the professors are now termed chief instructors and assistant instructors. The term instructor seems open to objection except in regard to the persons in charge of the workshops and of the training in gymnastics. It is proposed to substitute lecturers and demonstrators respectively in accordance with English practice. The actual number of lecturers and demonstrators is not specified as the present number is likely to need modification in the near future."

Education

A

Para. 11 of Go. 655 Est.
3.10.05

A

—do— —do—

Para. 11 of G.O. No. 655 Est. of 3 Oct. 1905 A
Vide para 11 of the Committee's report on page 4
of G.O. No. 657 Est. of 10.10.06. D

Para 11 of G.O. No. 657 Est. of 10.10.06 D

13. In paragraph 16 of its report on page 6 of G.O. No. 655, Edl., dated 3rd October 1905, the Committee expressed the opinion that the staff of the College should be recruited from the Public Works establishment and that the administration should be in the hands of the Chief Engineer who would however, be subordinate as regards general policy to the Director of Public Instruction, but independent in all other matters. They also suggested that the Professor of Mathematics should be an Engineer. The Chief Engineer was entirely opposed to these proposals and considered that the College should remain under the Educational Department and that the superior staff be recruited from Home and from the Educational Department, the Public Works Department being indented upon for temporary vacancies only. The Government agreeing with the Chief Engineer requested the Committee to reconsider the matter. Thereupon the Committee stated that they would not press the point as to the administration of the College which might be left in the hands of the Educational Department, but that the staff should be recruited from the Public Works Department, the cadre of the Public Works Department being increased if necessary so as to provide for the same. The Government were then disposed to recommend that the recruitment of the entire staff both professorial and subordinate should be

from

58 7

from the Public Works Department. This matter is separately under consideration. Pending the issue of final orders on these proposals, the revised rules may be accepted.

Lee.

Please see K.U.-Go No. 657 Ed. D 10.10.06 on pp. 215-21 & 26 at foot. Also K.U. Go. No 655 Ed. D 3.10.08 at pp. 25:26 From these papers it will be seen that the opinions of H.D.'s are very divergent as to the proper mode of recruitment of the staff. Moreover, the proposed rules 5 & 6 do not deal with this matter which will be separately considered. In rule 5 the words "and an adequate number of lecturers and demonstrators" are very vague, but I submit, may stand for the present. If & when the College is finally removed to Saidapet the staff required & and its recruitment can be definitely settled & the rule may then, if necessary, be made more definite.

Cas
7.3.7.

D

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I see no objection to the rules. If any alteration is made the words "an adequate number" may be replaced by the words "such number of lecturers & demonstrators as the Govt. Prof. may from time to time approve.

HSB
12.3.07

Leitzland
8/7

College Year, Vacations and Holidays.

14. The proposed rule 7 runs

"7. The College year shall consist of—

(a) a first term extending from about the 15th July to about the 10th October. The last ten days of the term shall be devoted to inspection tours.

(b) a second term extending from about the 11th October to about the end of April. A Survey camp lasting about a month shall be formed immediately after the Christmas holidays.

(c) a vacation extending from about the 1st May to about the 14th July."

15. This rule is new and has been based on the recommendations of the Committee approved in paragraph 4 of G.O. No.657, Edl., dated 10th October 1906. The date of commencement of the second term has, however, been altered in the proposed rule from 10th October to 11th October and that of termination of the long vacation from 15th July to 14th July. The proposed rule may be accepted.

16. The proposed rule 8 runs

> 8. When any of the above dates fall on a Saturday or Sunday they may be varied at the discretion of the Principal to an extent not exceeding two days. ||

17. This rule is ancillary to rule 7 and may be approved.

This date does not take into account other public holidays, but perhaps there is no need to refer to them. The rule may stand.
CAS
7.3.7.

Ques. A Saturday a Sunday would make two days difference. A Bank Holiday when Monday a Tuesday would make a difference of three days only. The variation would apply only to dates fixed by Rule 7.
12.3.07.

yes HSR

Rec

E.D.Notes

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6/D

18. The proposed rule 9 runs

VII

(Fifth Edition)

> 9. The gazetted holidays at Christmas and Easter will be enjoyed, and the casual holidays allowed by Chapter II of the Educational Rules shall apply as far as the special character of the College may permit."

19. This rule embodies the latter part of the existing rule 78 and rule 79 which are

> 78. The college shall be closed for the midsummer vacation from the 1st May to the first Monday in July and for the Christmas vacation from 23rd December to 17th January.
>
> 79. The casual holidays allowed in chapter II of the educational rules shall apply to this college in so far as its special character may allow.

20. The verbal alterations made and the substitution of chapter VII for chapter II of the Educational Rules seem to be necessary.

Cl
7.3.7.

Better add also after Edl. Rule the word "(Fifth Edition)

HDS
13.3.07.

21. The proposed rule 10 runs

"10. The first and second terms together constitute a College Session."

22. This rule is new, but appears unobjectionable.

12. 32

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E82.

Classes.-

23. The proposed rule 11 says

11. The College shall contain the following classes :—

(i) *Engineer class*—for the training of (*a*) civil engineers, and (*b*) mechanical engineers.

(ii) *Upper Subordinate class*—for the training of upper subordinates for the Public department, Revenue department, local boards and Municipalities.

(iii) *Lower Subordinate class*—for the training of lower subordinates, surveyors and draftsmen for the Public Works department, the Survey department, Revenue department, local boards, municipalities, railways, &c.

24. This replaces rules 8 and 9 of the existing rules which run

8. The college shall contain the following classes :—

(i) *Engineer class*—for the training of civil and mechanical engineers.

(ii) *Engineer Subordinate class*—for the training of upper subordinates for the Public Works department, local boards and municipalities.

(iii) *Sub-Overseer and Surveyor class*—for the training of lower subordinates and surveyors for the Public Works department, the survey department, local boards and municipalities.

(iv) *Draftsman class*—for the training of mechanical draftsmen and estimators.

9. The engineer and engineer subordinate classes constitute the college department, and the other classes the school department.

25. The proposed rule is in accordance with the recommendations of the Committee in regard to the reorganization of the college classes approved in paragraph 8 of G.O. No.655, Edl., dated 3rd October 1905.

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It may stand.

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Edl.

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Courses of Instruction - (i) Engineer Class

Page 4 of the Tab. Statt. E

— do — do —

26. The proposed rule 13 runs

[NOTE.—A revised course for the Engineer class will be published later. For the present, pending the construction of new laboratories and workshops, the course will be as follows :—]

12. The course of instruction shall extend over four years, of which three shall be spent in the College and the fourth chiefly on works. The course in the College shall be both theoretical and practical. Theoretical instruction shall be conveyed by lectures; while the practical work shall consist of surveying in the field, drawing, and work in the workshops and laboratories. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total. Students who desire to become Civil Engineers shall spend the final year in a Public Works division; those who wish to become Mechanical Engineers shall spend it in an engineering workshop."

27. This is the same as the existing rule 10 with the omission of the last sentence of the latter rule "Students shall receive lessons in riding during the practical course" which has been relegated to the end of the proposed rule No.17. The Principal states that "it will not be possible to adopt the new courses sanctioned (in G.O. No.655 Edl., dated 31st October 1905) for the Engineer class until new laboratories and workshops have been provided. In the meantime the existing course is adhered to with such modifications based on the spirit of the Committee's recommendations as can be conveniently introduced at once." The rule as proposed may be accepted.

D
A.

Chl 7.3.7

HDT 13.3.07

28. The revised rule 13 runs

"13. The subjects of study and the marks assigned to each shall be as follows:—

		Marks.
Branch I.—Mathematics and Science.		
1 Algebra (150), 2 Geometry (200), 3 Mensuration (150), 4 plane trigonometry (150), 5 calculus (250), 6 Mechanics (300), 7 hydro-mechanics (200), 8 heat (200), 9 chemistry (300).		1,900
Branch II.—Engineering.		
1 Drawing—Geometrical and Perspective (120), freehand and model (80), machine (200), building (300), estimating (200), practical work (300)	1,200	
2. Applied mechanics	400	
3. Building materials	100	
4. Building construction	200	
5. Hydraulic engineering ..	200	
6. Mechanical engineering ..	200	
7. Workshop practice, etc. ..	400	1,500
8. Surveying—Chain compass and plane table (150), level (150), theodolite (150), topographical drawing (200), practical work (350)	1,000	
		3,700
Physical Exercises		400
		6,000 "

29. The subjects of study and the marks assigned to each subject under existing rule 11 are

	Marks.
I. *Mathematics.*—Algebra (75), geometry (100), mensuration (75), plane trigonometry (75), differential and integral calculus (125) ..	450
II. *Science.*—Physics (325), chemistry (100), practical work (75)	500
III. *Engineering.*—Building materials (50), building construction (100), hydraulic engineering (100), applied mechanics (150), mechanism and the steam engine (100), practical work (200)	700
IV. *Drawing.*—Geometrical and perspective drawing (60), freehand and model drawing (40), building drawing (150), machine drawing (100), estimating (100), practical work (150).	600
V. *Surveying.*—Surveying (75), levelling (75), theodolite (75), topographical drawing (100), practical work (175)	500
VI. *Vernacular Language.*—Tamil or Telugu * ..	150
VII. *Physical Fitness.*—Gymnastics and drill	100
Total ..	3,000 "

30. Pending the construction of new laboratories and workshops, the new courses sanctioned



G.O. Dated

G.O. 655 Col. dated 3.10.05-A

In G.O. No. 655 EDT. of 3.10.05 A

Page 4 of G.O. No. 655 EDT. of 3-10-05 A

Vide Principal's remarks on pages of the tabular statement - flag E.

sanctioned by Government for the Engineer class could not be adopted. The courses now proposed are mostly in accordance with the spirit of the Committee's recommendations. The vernacular language as a subject of study has now been cut out with reference to paragraph 10 of the Committee's first report and the marks hitherto allotted to it have been distributed between Applied mechanics and Physical exercises - "two subjects which need encouragement." "The whole of the marks of the Engineer class have been doubled so as to make the total compare suitably with the totals for the Upper Subordinate and Lower Subordinate classes. The subjects moreover have been re-grouped on the lines recommended by the Committee for those classes."

31. The revised rule may be accepted.

The new Courses are practically the same as the old with a little more Specification & the omission of the Language Course. They are in accordance with orders. The rule may Stand.

Chs
7.3.7.

Hds
13.3.07

There is certainly a practical advantage in having Language classes at the College. The students have to qualify & pass if they are to join the Subordinate service. But the matter may be considered later on. Time is no object

Note this HDS
17-3-07

16. 36 57 16

32. Revised rule 14 runs

14. Of the total marks, 4,400 shall be awarded by the Board of Examiners for examination work, and 1,600 by the College Staff for practical work and physical exercises. Sessional examinations shall be held at the end of the first and second years, at which portions of the above subject shall be finally disposed of by the Board of Examiners. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying. ''

33. This rule corresponds to existing rule 12 which says:

12. Of the total marks, 2,300 shall be awarded by the Board of Examiners for examination work, and 700 by the College Staff for practical work and physical fitness. The marks given by the College Staff shall, however, be submitted to the Board for approval. Term examinations shall be held at the end of the first and second years, at which, portions of the above subjects shall be finally disposed of by the Board of Examiners. The marks awarded at these examinations shall be included in the final total. ''

34. The maximum number of marks to be awarded by the Board of Examiners and by the College staff has been increased with reference to the increase in the total number of marks made in proposed rule 15. The revised rule omits the provision in the existing rule that the marks given by the College staff shall be submitted to the Board for approval. The College staff must, no doubt be trusted to know the merits of the students, but the check provided by the existing rule seems to be unobjectionable.

35. The provision in this rule that "all students must satisfy the Principal of the College in practical surveying has been put in here from the existing rule 15.

Page 14 of the notes

I submit that the rule is best as it stands. The Staff should have a free hand in framing marks for their own examinations & they must be presumed honest. The teachers can give marks for general good work during the term, their knowledge of the character and studiousness of the scholars ought to bear on the assignment of marks. The Board cannot be expected to know these matters. Cas 7.3.7

yes The Principal should have the final word in the matter of marks. SFT

Dear E. D. Wade

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17. 37 58 17

36. Revised rule 15 runs

" 15. In order to pass an examination, a student must obtain half the aggregate marks awardable at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships, prizes or guaranteed appointments. No student shall be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed."

37. This corresponds to existing rule 13 which says

13. In order to pass the examination, students must obtain one-third of the marks assigned to each of the four subjects, namely, (1) mathematics, (2) engineering, (3) drawing and (4) surveying, one-fourth of the marks assigned to science, and one-half of the total marks awarded by the Board of Examiners and the College Staff separately. They must also satisfy the Principal of the College in practical surveying. Students who obtain not less than three-fourths of the total marks shall be declared to have passed in the first class, and all other successful students in the second class. Students shall be expected to present themselves for the first examination in engineering of the Madras University at the end of their second year of study, and for the B.E. degree examination at the end of their third year."

38. The existing rule prescribes a minimum in the five subjects noted in the margin in order to make a student eligible for a pass and also a minimum of one-half of the total marks awarded by the Board of Examiners and the College staff separately.

1. Mathematics.
2. Engineering.
3. Drawing.
4. Surveying.
5. Science

39. But under the proposed rule no minimum is required in any of the individual subjects and in order to secure a pass in an examination it is enough if a student obtains "half the aggregate marks awardable at that examination and in any previous sessional examination."

40. Under the existing rule the failure or success of a student is determined only after the final examination on the completion of the third year of his College course and the aggregate marks obtained by him at all the examinations taken

I cannot understand the Draft rule with any certainty. In order to pass an exam = half the aggregate marks awardable at that exam. and any previous sessional exam. must be gained. Eg. At a sessional exam. (I presume the immediately preceding one) the total marks are 600; at the exam. to be taken they are 300. In the former the student gets 400; in the latter 50 would apparently suffice because 400 + 50 = ½(600+300). So for ~~to-food~~ clear enough.

taken together were considered in determining his success or failure. According to the revised rule, however, the student has to obtain the qualifying minimum of marks at each of the sessional examinations, and in the event of his failing to do so, he is required to join the class division next below his own. It is also provided that such students are ineligible for scholarships, prizes or guaranteed appointments. At the same time the maximum period for which a student may remain in the College has been fixed at four years.

41. Again, under the existing rule a student must obtain three-fourths of the total number of marks to secure a pass in the first class, but the proposed rule requires only two-thirds of the total number of marks for a pass with honours.

42. The above modifications seem to be desirable and may be accepted.

Read

But the rule does not talk of 'qualifying' marks at sessional or final exams. I cannot understand the word 'qualifying', because on the principle of half the aggregate the qualifying number must vary with each exam. Eg. in the previous case A in the first exam gets 400, B 300. Then in the second exam. His 'qualifying' number is 50, B's 150; & gets only 200 & B 300. His 'qualifying' number will then be 250 + B's 150 in the second exam. The rule seems to me badly drafted & the D.P.I. may perhaps be asked to explain or redraft it.

S.E.B.

Please see para 2 of D.P.I. letter in the cr. below with Col. Lowis note.

Asst S.E.?

I see no great difficulty in the use of the word 'qualifying' which refers separately to each examination according to the maximum marks for that examination. The real point is that the qualifying minima are two fifths of the total marks of each exam. & no separate minimum is provided in any special subject. The certificate of the Principal as to Survey is necessary. A separate minimum of 33⅓% might be assigned for (a Mathematics (b Engineering (c Drawing — see Rule 13

Ques 3

18-Ca1 39 . 70 19

Examples. The Board must accept the marks awarded by the College staff. There has been a tendency on the part of individual students to appeal to the Board against the marks awarded by the staff, when they have failed to reach the required maximum by one or two marks. Such an appeal should not, I think, be allowed. There must be a full incentive to good work during practical study, and only the College staff can adequately gauge the merits of the candidates on this ground. The marks awarded by the staff should be final and not subject to revision by the Board

HSH
13.8.07

See marginal note above — page 6

I see no objection to allowing 66% of the total mark to qualify for honours as against 70% at present HSH

Very well 8/7

Bangalore

Please see page 8 of D.P.I. letter to Dr. Coates with Govt. note

43. The revised rule 16 runs

> "16. Students shall be expected to present themselves for the first examination in engineering of the Madras University at the end of their second year of study, and for the B.E. degree examination towards the end of their practical course."

44. This rule corresponds to the last sentence of the existing rule 15 with the modification that students are required to appear for the B.E. degree examination towards the end of their practical course instead of at the end of their third year as required by the existing rule.

45. In paragraph 8(3) of its report disposed of in G.O. No. 655 Edl., dated 3rd October 1905, the Committee recommended that "no student should be allowed to "appear for any degree examination until "he had completed his practical course "satisfactorily."

46. The proposed rule 16 slightly modifies the Committee's proposal and permits the student to appear for the B.E. degree examination towards the end of the practical course. The reasons for this modification, as given by the Principal, are

> "Under the University by-laws a student can present himself after three years of study. The Committee think he should not appear till he has completed his practical course. The practical course will commence about the 1st July; while the B.E. degree examination will be held in ~~March~~. It is considered that candidates should be encouraged to present themselves in March during their practical course, i.e., ~~three and a half~~ years subsequent to entrance to the College."

Copy

E Rivett

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20.41 72 21

47. Revised rule 17 runs

" 17. Students who are successful at the College final examination shall proceed to the practical course. Those who elect to become Civil Engineers shall be attached to a Public Works division where large works are in progress, and will be regularly instructed in the preparation of materials, the practical details of construction, the management of labour, and the system of accounts. Those who elect to become Mechanical Engineers will proceed to the Public Works workshops. One mechanical engineer student will be permitted each year to join the Madras Railway Locomotive shops at Perambúr, the concession being offered in the order of merit at the final examination. The premium will be Rs. 500, of which half will be defrayed by the Educational Department, the other half being met by the student. The premium will cover a course of two years, of which one year is obligatory. Other mechanical engineer students may attend at Perambúr on payment of the full premium. All students shall receive lessons in riding during the practical course. "

Page 6 of the Tab. draft. E

48. This corresponds to the existing rule 14 with the modification that the option given to Mechanical Engineer students of spending the last six months of their practical course at the College workshops has been taken away.

H07 3.3.07

The revised rule may stand. The practical training in the outside workshops is likely to be more thorough than in the College & there seems no need for the student to return to the College workshops

Chd
8.3.07.

Note! 15-3-09.

E.R. Note!

(ii) Upper Subordinate class

Paper of the Tab stat. E

42

13 22

49. Revised rule 18 runs :-

18. The course of instruction shall extend over four years, of which three shall be spent in the College and the fourth on works. The course in the College shall be both theoretical and practical. Theoretical instruction shall be conveyed by lectures, while the practical work shall consist of surveying in the field, drawing, and work in the workshops. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total."

50. This is similar to existing rule 15, but the course of instruction has been extended to four years - three years to be spent in the College and the fourth on works, instead of 2½ years and one year, respectively, under the existing rule. This is in accordance with the Committee's recommendation in paragraph 13 of its report on page 5 of G.O. No.655 Educational dated 3rd. October 1905.

A

It may stand
Cas
8-2-7.

HDL
13-3-09.

Ed. Note

22. 43 74 23

57. Revised rule 19 runs

19. The subjects of study and the marks assigned to each shall be as follow:—

BRANCH I.—MATHEMATICS.

	Marks.
1. Arithmetic (150), 2. Algebra (150), 3. Geometry (150), 4. Mensuration (150), 5. Plane Trigonometry (150) ..	750

BRANCH II.—ENGINEERING.

	Marks.	Marks.
1. Drawing.—Freehand and model drawing (100), geometrical drawing (300), machine drawing (150), building drawing and estimating (550) ..	1,100	
2. Applied mechanics	600	
3. Construction	500	
4. Hydraulic engineering	400	
5. Mechanical engineering	300	
6. Surveying.—Surveying with chain, compass and plane table (250), levelling (250), theodolite surveying (250) ..	750	
		3,650
Workshop practice		300
Physical Exercises		300
		5,000

52. This corresponds to existing rule 16 which says

16. The subjects of study and the marks assigned to each shall be as follows:—

	Marks.
I. *Mathematics.*—Arithmetic (50), algebra (80), geometry (50), mensuration (80), plane trigonometry (90)	350
II. *Engineering.*—Building materials (50), building construction (100), hydraulic engineering (100), applied mechanics (125), mechanism and the steam engine (75), practical work (150)	600
III. *Drawing.*—Geometrical and perspective drawing (40), freehand and model drawing (35), building drawing (100), machine drawing (75), estimating (75), practical work (125) ..	450
IV. *Surveying.*—Surveying (75), levelling (75), theodolite (50), topographical drawing (75), practical work (125)	400
V. *Vernacular Language.*—Tamil or Telugu *	125
VI. *Physical Fitness.*—Gymnastics and drill	75
Total ..	2,000

53.

53. The syllabus has been altered in accordance with the Committee's recommendations. But the total number of marks proposed by the Committee has been raised in the proposed rule from 4500 to 5,000 and the marks assigned by the Committee to the several subjects have also been rearranged. On this point the Principal observes

> Workshop practice has been omitted altogether, and the allotment for drawing is absurdly inadequate. That for physical exercises is also too low. If exercises are to be encouraged, and the desirableness of encouraging them among students destined for an active out-door employment can admit of no doubt, more marks must be given. The present allotment is notoriously insufficient, and the Committee's is even lower. As rearrangement of the general scheme of marks is obviously called for, advantage has been taken of the opportunity to work up to a round total of 5,000, instead of the 4,500 adopted by the Committee.

The rule may stand.
Ces
8.3.7.

HOI
13.3.07

24. 45 - 76 : 25

54. Revised rule 20 runs

"20. Of the total marks, 3,200 shall be awarded by the Board of Examiners for examination work, and 1,800 by the College Staff for practical work and physical exercises. A sessional examination shall be held at the end of each year at which portions of the above subjects shall be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying."

55. This is an adaptation of rule 17 with the consequential alterations necessitated by the revision of the total number of marks made in proposed rule 19. As in the proposed rule 14 the provision in existing rule 17 requiring the approval of the Board of Examiners to the marks given by the College staff has been omitted. Attention is solicited to the remarks on this point under proposed rule 14.

* Page 22 of the notes.
Page 16 of the note.
× Page 7 of the Tab. statt. E

Page 16 of the notes &c.

The rule may, for the reasons given on p 16 above, stand.
Cad
6.3.7.

HDL
13.3.07.

46 35. 77 26

58. Proposed rule 31 runs

21. In order to pass an examination a student must obtain half the aggregate marks awarded at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships, prizes or guaranteed appointments. No student will be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed.))

Page 7 of the tab. statt. E
Pages 17 & 18 of the notes

57. This corresponds to existing rule 18. The remarks made under revised rule 15 regarding subject minima and sessional examinations apply to this rule also.

Please see the note on pp. 17. 18 above. Cl. 8.3.7.

HSJ
13.3.07

Recruit = page 18
87

58. Proposed rule 22 runs

22. Students who are successful at the final examination shall be attached for one year to Public Works divisions where large works are in progress, and shall be regularly instructed in the preparation of materials, the practical details of construction, the management of labour, and the system of accounts. They shall receive lessons in riding during the practical course.»

59. This is the same as the existing rule 19 and the last sentence of existing rule 15.

Ct 15 Sept
Revd

48 27.

7928

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(iii) Lower Subordinate class.

60. Proposed rule 23 runs

23. The course of instruction shall extend over three years. Theoretical instruction shall be conveyed by lectures, while the practical work shall consist of surveying in the field, drawing, and work in the workshops. Marks for practical work shall be assigned by the College Staff, and these marks shall count towards the final total.»

61. The present sub-overseer, surveyor and draftsman classes are to be thrown together into a new class to be called the "Lower Subordinate class" in accordance with the recommendations of the Committee approved in paragraph 8 of G.O. No.655 Educational, dated 3rd October 1905. The course of instruction for this new class has been fixed at three years instead of at two years for the existing suboverseer and surveyor and draftsman classes. This is also in accordance with the Committee's recommendation.

A

A

The rule may stand.
Cld
8.3.7

HDI
13.3.07

62. Proposed rule 24 runs

24. The subjects of study and the marks assigned to each shall be as follows:—

	Marks.
1. Drawing.—Freehand and model drawing (200), Geometrical drawing (300), Machine drawing (250), Building drawing and estimating (600)	1,350
2. Applied Mechanics	400
3. Construction	550
4. Surveying.—Surveying with chain, compass and plane table (400), levelling (400), theodolite surveying (400)	1,200
Workshop Practice	250
Physical Exercises	250
	4,000

63. This replaces existing rules 21 and 25. The syllabus is in accordance with the Committee's recommendation. But the distribution of marks among subjects has been modified by the Principal who observes:-

"~~20-23.~~ The Committee's scheme of mark distribution (First Report) is incomplete and not sufficiently detailed. A division by subjects only is needed, not by years as supplied by the Committee. Drawing, other than geometrical drawing, is presumably included by the Committee under engineering. The allotment under physical exercises is far too low. The total worked up to is the inconvenient one of 7,900 which compares badly with the Committee's total of only 4,500 for the next higher class.

In the draft rules a more complete distribution has been framed, analogous to that for the Upper Subordinate class, and working up to a total of 4,000 marks."

Page 8 of the Tab. Statt. E
In G.O. No. 655 Edl. 8/3-1905 A
(Pages 9 to 21)

Page 7 of the Tab-Statt. E

The Principal's assignment may stand.
Cles
8.3.07.

1452
13.3.07.

50 81 30

64. Proposed rule 25 runs

25. Of the total marks, 1,750 shall be awarded by the Board of Examiners for examination work, and 2,250 by the College Staff for practical work and physical fitness. A sessional examination shall be held at the end of each year at which portions of the above subjects shall be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the College in practical surveying."

Pages 8 & 9 of the Tab. with E

65. This rule replaces existing rules 22 and 26 with ~~the consequential~~ some alterations in the marks to be awarded by the Board of Examiners and the College staff. Consequent on the change in the total number of marks.

66. It is, however, observed that while under the existing rules one-third of the total number of marks for the sub-overseer and surveyor class and one-fourth of those for the draftsman class are to be assigned by the College staff, the proposed rule assigns more than 56 per cent. of the total number of marks for the Lower Subordinate class to be awarded by the College staff. This seems to be in accordance with the spirit of the Committee's recommendation on page 21 of G.O. No.655, Educational, dated 5rd October 1905.

A

The rule may stand. Cl. 6.3.7.

13.8.07.

67. Proposed rule 26 runs

26. In order to pass an examination a student must obtain half the aggregate marks awarded at that examination and any previous sessional examination. A student who fails to obtain qualifying marks at a sessional or final examination shall not be promoted or pass out, but must either leave the College or join the class division next below his own. Such students shall be ineligible for scholarships or prizes. No student will be permitted to remain more than four years in the College. Students who obtain not less than two-thirds of the total marks shall be declared to have passed with honours, and all other successful students to have passed."

68. This replaces existing rules 25 and 27 which are

23. In order to pass the examination, students must obtain one-third of the marks assigned to each of the three subjects, namely, (1) surveying, (2) engineering and (3) drawing and one-half of the total marks awarded by the Board of Examiners and the college staff separately. They must also satisfy the principal of the college in practical surveying. Students who obtain not less than three-fourths of the total marks shall be declared to have passed in the first class, and all other successful students in the second class.

27. In order to pass the examination, students must obtain one-third of the marks assigned to each of the four subjects, namely, (1) geometrical, &c., drawing, (2) building construction and drawing, (3) machine drawing and (4) estimating, and one-half of the total marks awarded by the Board of Examiners and the college staff separately. Students who obtain not less than three-fourths of the total marks shall be declared to have passed in the first class and all other successful candidates in the second class."

69. The remarks in regard to qualifying minima in sessional examinations under rule 15 supra apply to this rule also.

Pages 17 & 18 of the notes

Please see pp. 17. 18 ante.
Cal
8.3.7.

HDJ
13.3.07

V. ante
87

57 83 32

Strength of classes.

70. Proposed rule 27 runs.

27. The number of students to be admitted annually shall ordinarily be limited to 20 in the Engineer class, 30 in the Upper Subordinate class, and 60 in the Lower Subordinate class."

Page 9 of the Tab. Statt. E

71. This rule corresponds to rule 28 of the existing rules. The number of students to be admitted to the Lower Subordinate class has been fixed at 60 as against a total of 70 for the present suboverseer and surveyor and draftsman classes.

I cannot find the any reason for the reduction. The present Sub-overseer & surveyor, and draftsmen classes each contain 35. Let the rule may stand. It is not absolute.

Cbs
8.37.

It was ordinarily a rule allowing for departures where necessary. 60 is a sufficiently large class.

HDJ.
13307

Very well: but the limitation is unfortunate if it is likely to keep out students. As soon as any objection on these ground arises the rule can be reconsidered.

8/7
15/

Let the Le & Rs & the J. C. Wm

53

84 93

Admissions and withdrawals.-

72. Proposed rule 28 runs

"28. All applications for admission shall be submitted in a prescribed form."

Page 9 of the tab. stat. E

73. This is existing rule 29.

Mag (Law) Cler 8.3.7

JTA/ 13.2.07

Read

5th 55.

85 34

74. Revised rule 29 runs

"29. Admission shall be once a year, on the 15th July (unless that date falls on a Saturday or Sunday, when the students shall join on the following Monday) for all classes."

75. This corresponds to existing rule 30 which says

"30. Admissions shall be once a year:—(1) for the engineer class on the 20th January (unless that day falls on a Saturday or Sunday when the students shall join on the following Monday); (2) for the engineer subordinate class on the first Monday in July; and (3) for the sub-overseer and surveyor class, and for the draftsman class on the fourth Monday in January."

76. The alteration in the date of admission is consequential on the definition of college year given in proposed rule 7.

Page 8 of the note

The rule may stand.
Cal
8.3.7.

HD2
13.3.07.

77. Proposed rule 30 runs

"30. The Principal may refuse admission to any candidate whose previous conduct has not been satisfactory. His order shall be subject to appeal to the Director, whose decision shall be final."

78. This is existing rule 31.

56

87 361

79. Proposed rule 31 runs

31. Withdrawals in the case of scholarship-holders shall, except for good and sufficient reasons, be allowed only on completion of the course for which the scholarships have been awarded."

Page 9 of the Tab. statt. E

80. This is existing rule 32.

May Stand
Col
8.3.7.

HOL
13.3.07

1 57 56. 88 37

Qualifications for Admission –

(i) Engineer class.

81. Proposed rule 32 runs:

32. Candidates must have passed the B.A. degree examinati the Madras University in Branch I, Mathematics and Natural P sophy, or Branch II-A, Mixed Mathematics and Advanced Physic an examination accepted by Government as equivalent thereto, a must be under 22 years of age on the 30th June of the year of adm sion. The number of candidates admitted annually shall not ordinari exceed twenty. If the number of applicants exceeds twenty, admissio shall be regulated by selection by the Principal. Persons who presen themselves for the B.A degree examination in Branch I or Branch II during the year of application for admission to the College may regist their names, but their eligibility for admission will be contingent o their passing the examination. »

with Mathematics or Physical Science (II-A) as an optional subject, or

Mathematics or Physical science (Group II-A of part II)

Pages 38 & 39 of the note.

82. This rule and proposed rules 35 and 34 replace existing rules 35 to 37 which are

33. Candidates must have passed the first examination in Art of the Madras University or an examination accepted by Governmen as equivalent thereto and must be between the ages of 17 and 2 years on the 31st December preceding the year of admission. Candidates otherwise qualified, but whose ages exceed the maximum above laid down, may be admitted with the sanction of the Director of Public Instruction, if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for prizes and scholarships.

34. Admissions shall be regulated by a competitive examination to be held annually on the third Monday in November and the following day at the college of engineering and at Rajahmundry, Bellary, Kumbakónam, Madura, Calicut and Trivandrum.

35. The scheme of examination shall be as follows:—

	Marks.
Arithmetic (the whole)	100
Algebra (including quadratic equations and the binomial theorem)	75
Geometry (Euclid Books I to IV, VI, and XI, Propositions 1 to 21)	75
Mensuration	50
Trigonometry (including the solution of plane triangles)	100
English composition	80
Hand-writing (to be judged from the paper on English composition)	60
Elementary drawing	60
Total ..	600

The qualifying minimum shall be 240 marks.

36. The fee for admission to this examination shall be Rs. 20. Applications will be received by the principal up to the third Monday in October.

37. The first twenty qualified candidates on the list shall be selected for admission, provided that if five non-Brahmins be not within the first twenty the number shall be made up, in order of merit, from the *other* qualified candidates who are not Brahmins. The names of the successful candidates shall be published in the *Fort St. George Gazette.* »

83.

Para 11 of the committee's report
G.O. No. 655 Edn. of 31-10-05 A.

83. The proposed rule 52 embodies the recommendations of the Committee that the Engineer class should in future be recruited from those who have taken the Bachelor of Arts degree with Mathematics or Physical Science as their optional subjects.

"With this elevation of standard, an entrance examination becomes unnecessary. If at any future time the number of qualified applicants shall be in excess of the number of vacancies, selection can be made on some or all of the following bases—(*a*) marks gained in the degree examination, (*b*) class of the population, (*c*) representation of districts, (*d*) services of ancestors, (*e*) physique."

Vide Principal's remarks on page 9 of the Tab. statt. E

The provision in the existing rules in regard to an entrance examination accordingly has been omitted.

The rule is in accordance with the order of Govt in para. 3 of G.O. 657 Edn. dt 10.10.06, Alwaystand.

Ad
8.3.07.

H.O.
13.3.07.

59 38.

90 39

84. Proposed rule 55 runs

> 33. Candidates otherwise qualified, but whose age exceeds the maximum above laid down may be admitted with the sanction of the Director of Public Instruction, if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes. "

Passed to the Tab. statE

85. This reproduces the provision in the latter part of existing rule 55.

Magistrand. Col 8.3.07

13.3.07.

Rule

60 39.

91 40

86. Proposed rule 34 runs

> 34. The fee for registration for admission shall be Rs. 5, which will under no circumstances be refunded. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette.*"

87. This rule is new. The proposed fee of Rs.5 for registration for admission may be accepted.

88. Colonel Love observes

> "It is necessary to prescribe a registration fee as a guarantee of an applicant's good faith and intention to join the College if selected."

Page 10 of the Tab. statt. E

5 Jto2

The rule may stand.
Cul
8.3.7.

if, if not admitted Board point may be considered if Dyas one subsequently caused. 8/7

Rule to the Board 7.3.07

Read (ii) Upper subordinate class. 1/p.61

40

89. Proposed rule 35 runs- C27

35. Candidates must have passed the first examination in Arts or Intermediate examination of the Madras university or an examination accepted by Government as equivalent thereto, and must be under 22 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed thirty. If the number of applicants exceeds thirty, admission shall be regulated by selection by the Principal. Persons who present themselves for the intermediate examination during the year of application for admission to the College may register their names, but their eligibility for admission will be contingent on their passing the examination."

*Pgs 41 & 42 of the note

90. This rule and the proposed rules 36 and 37 replace existing rules 39 to 43 which are as shown below :-

39. Candidates must have passed the upper secondary examination, or the matriculation examination of the Madras university, or an examination accepted by Government as equivalent thereto and must be between the ages of 16 and 21 years on the 31st December preceding the year of admission.

40. Admissions shall be regulated by a competitive examination, to be held annually on the last Monday in April and the following day at the college of engineering and at Berhampur, Vizagapatam, Rajahmundry, Masulipatam, Bellary, Kurnool, Nellore, Kumbakónam, Madura, Calicut, Mangalore and Trivandrum.

41. The scheme of examination shall be as follows :—

	Marks.
Arithmetic (the whole)	125
Algebra (including quadratic equations)	75
Geometry (the first four Books of Euclid)	100
English composition	80
Hand-writing (to be judged from the paper on English composition)	60
Elementary drawing	60
Total ..	500

The qualifying minimum shall be 200 marks.

42. The fee for admission to this examination shall be Rs. 15. Applications will be received by the principal up to the third Monday in March.

43. The first thirty qualified candidates on the list shall be selected for admission, provided that, if five non-commissioned officers or soldiers of British regiments, six other Europeans and Eurasians and five Muhammadans be not within the first thirty, the number under each may be made good, in order of merit, from the other qualified candidates. The names of selected candidates shall be published in the *Fort St. George Gazette*."

91. The proposed rule 55 embodies the recommendations of the Committee that the Upper Subordinate class should in future be recruited from those who have passed the First Examination in Arts or the Intermediate Examination of the Madras University instead of from Matriculates and Upper Secondary men as at present. The remarks in regard to entrance examination and selection under rule 52 apply to this rule also.

Para. 5 of the Report in G.O. No. 655 Edt. dt 3-10-05 A

Pages 36 & 37 of the note file.

HDL 13.2.07 S/7

If the rule may stand. Cad 8.3.7

92. Proposed rule 36 runs

> 36. Candidates otherwise qualified, but whose age exceeds the maximum above laid down, may be admitted, with the sanction of the Director of Public Instruction, if the strength of the class permits. Students so admitted shall be ineligible for guaranteed appointments and for scholarships and prizes.

93. This rule is new and has been put in on the analogy of proposed rule 35 for Engineer students.

Page 38 of the note

HOD 13.3.07.

Secretary's Case 6.3.7

63

42.

9443

94. Proposed rule 37 runs

> 37. The fee for registration for admission shall be Rs. 4, which will under no circumstances be returned. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette.*"

95. This is also new and follows the lines of proposed rule 34.

Page 39 supra

It may likewise stand.
Cms
8.3.7

HDJ
13.3.07.

See rule above under
draft rule 34 — page 39 —

8/7
15/7

(iii) Lower Subordinate class.-

96. Proposed rule 38 runs

38. Candidates must have passed the Matriculation examinatio of the Madras University, or an examination accepted by Governmer as equivalent thereto, and must be under 22 years of age on the 30t June of the year of admission. The number of candidates admitte annually shall not ordinarily exceed sixty. If the number of applicant exceeds sixty, admission shall be regulated by selection by th Principal. Persons who present themselves for the matriculation exa mination during the year of application for admission to the Colleg may register their names, but their eligibility for admission will be contingent on their passing the examination."

Page 45 of the note

97. This rule and proposed rules 39 and 40 replace existing rules 45 to 48 and 50 which are

45. Candidates must have passed the lower secondary or the late middle school examination, or an examination accepted by Government as equivalent thereto and must be between the ages of 16 and 22 years on the 31st December preceding the year of admission.

46. Admissions shall be regulated by a competitive examination to be held annually on the third Monday in November at the college of engineering and at Berhampur, Vizagapatam, Rajahmundry, Masulipatam, Bellary, Kurnool, Nellore, Kumbakónam, Madura, Calicut, Mangalore and Trivandrum. The scheme of examination shall be as follows :—

	Marks.
Arithmetic (to the end of fractions)	100
English composition	100
Hand-writing (to be judged from the paper on English composition)	100
Drawing (copying a lithographed drawing) ..	100
Total ..	400

The qualifying minimum shall be 200 marks.

47. The fee for admission to this examination shall be Rs. 10. Applications will be received by the principal up to the first Monday in October.

48. The first thirty-five qualified candidates on the list shall be selected for admission, provided that if four Europeans or Eurasians and three Muhammadans be not within the first thirty-five, the number under each may be made good, in order of merit, from the other qualified candidates. The names of successful candidates shall be published in the *Fort St. George Gazette*.

50. The rules of admission to the draftsman class shall be the same as those for the sub-overseer and surveyor class, except that the health certificate need testify only to the candidate's fitness for the public service, and that the deposit shall be one of Rs. 60."

Paras 5 and 14 of the report in G.O. No. 655 Edl. dt 2-10-05

98. The proposed rule 38 embodies the recommendations of the Committee to amalgamate the suboverseer and surveyor and draftsman classes into a single class to be called the 'Lower Subordinate class' and

Rec'd

65

9645

and to raise the standard of general education for admission to this class to the Matriculation examination. Under the existing rules the maximum number of candidates prescribed for admission to suboverseer and surveyor and draftsman classes was 70. But the proposed rule fixes the number of students for admission to the amalgamated Lower Subordinate class at 60. For orders whether the figure now proposed, namely, 60, may be accepted.

The figure may stand. It is not absolute.
Cad
8.3.07

The rule may stand. Selection by the Principal can now be substituted for Competitive examination

13.8.07

817

Revs

66

1

97 46

99. Proposed rule 39 runs

39. Candidates otherwise qualified, but whose age exceeds the maximum above laid down, may be admitted, with the sanction of the Director of Public Instruction if the strength of the class permits. Students so admitted shall be incligible for guaranteed appointments and for scholarships and prizes.

Pages 38 + 41 of the note

100. This rule is new and follows the lines of proposed rules 55 and 56.

Traq Stan - Circ 8.3.7

2 ADJ 13.3.09.

8/7

Recd

67 46. 98 47

101- Proposed rule 40 runs

40. The fee for registration for admission shall be Rs. 3, which will under no circumstances be returned. Applications will be received by the Principal up to the last day of May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

102. This is also new and is analogous to proposed rules 54 and 57.

Page 39 & 42 of the notes

May stand. The fees are graduated 5.4.3. according to the 3 classes of rules 54 & 57.
Cas
8.2.7

402
13.3.07
See Gazette - page 39
See 8/7

Read

68

99 48

47.

1

(iv) All Classes.

105. Proposed rule 41 runs:

41. The selected candidates of all classes shall join the College on the 15th July (unless that day falls on a Saturday or Sunday, when they shall join on the following Monday), and shall each on that day deposit with the Principal—

(a) a sum of money, to be drawn against for instruments and books, which shall be for the engineer class Rs. 120, for the upper subordinate class Rs. 100, and for the lower subordinate class Rs. 80;
(b) a health certificate from a gazetted Government Medical officer to the effect that the candidate is fit for the out-door work of the Public Works department, and that he has had small-pox or has been vaccinated;
(c) his University diploma or certificate;
(d) testimonials of good character covering the last two years;
(e) satisfactory evidence of age;
(f) a leaving certificate from his last college or school.))

104. This rule prescribes a uniform date viz., 15th of July for the commencement of the course of the students of all the three classes instead of different dates prescribed by the existing rules 38, 44 and 49, namely, 30th January for the Engineer class, 1st Monday in July for the Engineer Subordinate class and the 4th Monday in January for the suboverseer and surveyor and draftsman classes. The enumeration of documents required from students at the time of admission has been grouped together for all the classes in the proposed rule 41 and "the amounts required as deposits have been raised to those which experience shows to be necessary."

Pages 10, 12 and 13 of the Tab. statt. E

Vide Principal's remarks on pages 13 of the tabular statement E.

Under the present rules the deposits are Rs 100, 75, & 75. The proposed rule may stand. The Principals only reason for increase in deposits is the increased expenses

Cl 8.3.07.

HSQ
13-3-07.

It is a pity to raise those amounts, if it can possibly be avoided. Let stand for meantime: but ask P. to report what arrangements are made by the Principal to check supply of books & instruments

87, 57

69 48. 100 49

Military Students.

105. The proposed rule 42 runs

42. Non-commissioned officers and soldiers of His Majesty's Brit Service will, to the number of five annually, be admitted to the Colle They must hold a first-class Army School certificate, and m ordinarily have been brought up in Great Britain or Ireland, or some non-tropical British Colony. If more than five candidates app selection will be made by the Principal, who will give preference those who have practised a trade. Candidates must be of thoroughl good character, well recommended by their commanding officers, an under 28 years of age on the 30th June of the year of admission They must have had not less than two years' service prior to the date of admission to the College. Applications will be received by the Principal up to the last day of May. Each candidate's application shall be forwarded by his commanding officer to the Principal, and shall be accompanied by the following documents relating to the candidate—

(*a*) extract from regimental defaulter's and court-martial books for the whole period of service;

(*b*) extract from company defaulter's book for the preceding two years;

(*c*) certificate that the candidate was [born and] brought up in Great Britain or Ireland, or in some non-tropical British Colony;

(*d*) statement of the trade followed by the candidate before enlistment;

(*e*) statement that the candidate holds a first-class Army School certificate;

(*f*) statement whether the candidate is married or unmarried;

(*g*) certificate of good eye-sight, sound health and unimpaired constitution, signed by a medical officer in the following form:—

I certify that I have carefully examined A.B., and that to the best of my belief his eye-sight is good and he has no disease, constitutional affection or bodily infirmity, unfitting him, or likely to unfit him, for out-door employment as an Upper Subordinate in the Public Works Department.

Name.

Designation.

106. This corresponds to existing rule 51 which runs

51. Non-commissioned officers and soldiers of His Majesty's British service, desirous of qualifying for employment in the Public Works department, will, to the number of five annually, be admitted to the college by a competitive examination. Candidates must be soldiers of thoroughly good character well recommended by their commanding officers and under 28 years of age. They must have had not less than two years' service prior to the date of admission to the college. Applications will be received by the principal up to the second Monday in March. Each candidate's application shall be forwarded by his commanding officer to the principal and shall be accompanied by the following documents relating to the candidate:—

(*a*) extract from regimental defaulter's and court-martial books for the whole period of service;

(*b*) extract from the company defaulter's book for the preceding two years;

(*c*) certificate that the candidate has never been dismissed from staff employment;

(*d*) statement whether the candidate is married or unmarried;

(*e*) certificate of perfect eye-sight, sound health and unimpaired constitution, signed by a medical officer in the following form:—

I certify that I have carefully examined and that to the best of my belief his eye-sight is perfect, and he has no disease, constitutional affection or bodily infirmity, unfitting him, or likely to unfit him, for active out-door employment as an upper subordinate in the Public Works department.

Name.

Designation.

107. The Committee's recommendations regarding the qualification of Military candidates for admission, as modified by G.O. No.657, Educational, dated 10th October 1906, have been given effect to in draft rule 43./ Admission is now regulated by selection and the selected candidates have to join a probationary class for one year - vide paragraph 13 of the Committee's first report on page 5 of G.O. No 655 Educational, dated 3rd October 1905.

"The Committee originally recommended ~~9. Military Subordinates.—The Committee originally recommended~~ that no soldier student should be admitted unless he were British born and bred, knew a trade, and possessed a first-class army school certificate. Such students, they proposed, should be admitted to a probationary class for a period of one year to prepare them for a qualifying College examination which should be passed prior to joining the Upper Subordinate class.

The Government, however, were disposed to regard these recommendations as going too far and, if adopted in practice, as being tantamount to abolishing recruitment from the army, a result by no means to be desired. It was accordingly proposed to adopt in their entirety the rules of the Roorkee College in this respect." The Committee point out that the adoption of the Roorkee rules would be inconsistent with the extension of the College course of the Upper Subordinate class from $2\frac{1}{2}$ to 3 years and that it would confer an unfair advantage of one year's seniority on the part of Military subordinates as compared with the civilian students. They would therefore adhere to their original recommendations, which Government will now accept save as to the requirement that a soldier seeking admission to the college should have been brought up to a trade. As to this it will suffice if preference is given to soldiers who have been so brought up."

108. The words "or in some non-tropical British Colony" occurring at the end of the second sentence of this rule have been newly inserted. The object of the clause is explained by the Principal as follows:-

~~"or in some non-tropical British Colony."~~

"The object of the Committee is to ex-
"clude non-commissioned officers and men
"of British regiments who have been
"brought up in India on the ground that
"they are unequal to the home-bred British

(First

"First Report Para.15). A soldier who has "been brought up in a non-tropical British "Colony like Canada or Australia would be "free from any disabilities which a country "born European may possess, and the spirit "of the Committee's recommendations will "be carried out by providing for the eligi- "bility of such colonials."

109. The certificate mentioned in clause (c) of the documents which should accompany the application, has been newly put in in accordance with the second sentence of the rule.

The rule is generally in accordance with orders. There is one point, however, which seems to deserve notice. In the body of the rule it is stated that the Soldier 'must ordinarily have been brought up in Great Britain' etc. whereas certificate (c) requires the Candidate to have been "born & brought up in Great Britain etc." The certificate is much more positive. It seems doubtful whether birth in a non-tropical country is necessary. A man born in India & brought up at home is not necessarily less fit physically than a man born & brought up in England. It would + therefore seem sufficient if the certificate merely required proof that the Candidate was brought up in England or any other non-tropical Country. Cld 8.3. Yes. Ans 12307 Verbyuell 8.3.

72 103 52

110 :· Proposed rule 43 runs

> 43. The selected candidates shall join the College on the 15th J and bring with them :—
> (*a*) a descriptive roll ;
> (*b*) the record of service ;
> (*c*) a last-pay certificate ;
> (*d*) last clothing and bedding certificates ;
> (*e*) a certified list of clothing and necessaries in their possessi when quitting their regiment ;
> (*f*) a certificate of the carriage, if any, furnished to them at th Government expense, &c., on leaving their regiments t proceed to Madras.))

Page 14 of the Tabular Statement E

111. This corresponds to the first part of the existing rule 55 with the alteration that the date on which the selected candidates should join the College has been fixed as 15th July.

HSS 13.3.07.

Lucy Stand. Cast 8.3.7.

73 104 53

112. Proposed rule 44 runs

44. When not furnished with carriage to enable them to join, certificate shall be given to this effect, and they shall then receive travelling allowance at the rate of one anna per mile. A double allowance shall be granted to married men if they are accompanied by their wives."

Page 14 of the Tabular Statement E

113. This is the second paragraph of existing rule 55.

May stand.
Cas
8.37.

Vdg
13-3-07

114. Proposed rule 45 runs

> **45. The selected candidates shall on joining attend as probationers for one year during which they will prepare for a College qualifying examination in Mathematics, English and Elementary Drawing. Probationers who fail to pass this examination shall at once revert to their corps. Those who pass shall join the first-year Upper Subordinate class as regular students.))**

115. This rule is new and embodies the Committee's recommendation approved in G.O. No.657 Educational, dated 10th October 1906, that "such students should be admitted to a probationary class for a period of one year to prepare them for a qualifying college examination which should be passed prior to their joining the Upper Subordinate class." All failures should at once rejoin their units.

vide para 9 of p. D.

vide the last part of the Committee's first report. page 5 of 80 655 Edl. S. 3.10.05. A

The rule is in accordance with orders.
Cas
8.3.7.

116. Proposed rule 46 runs

46. While studying at the College Military students shall be considered as doing duty, and shall remain on the strength of their respective regiments, without prejudice to their promotion and other advantages until they are appointed to the Public Works Department. They shall be provided with barracks and married quarters at the College, shall wear the undress or fatigue uniform of their rank and regiment, and shall be under the command of the Principal, or in his absence, of the Superintendent of Military students. They shall receive, whilst at the College, the same pay as with their regiments, including good-conduct pay when entitled to it, together with rations or compensation in lieu, and a College allowance of Rs. 11 per mensem to cover extra messing and other expenses. They shall be exempted from the payment of College fees, and shall be supplied *gratis* with drawing instruments and the text-books in use. They shall not compete for civil scholarships, but shall be eligible for medals and prizes. The Principal may remand any student to his regiment for insufficient progress or unsatisfactory conduct."

Pages 114 to 115 of the Tabular Statement E

117. This is existing rule 54.

Requires no alteration.
Cbd
8.2.7.

Hdq
13.3.07

76 107 56

118. Proposed rule 47 runs

47. Military students who pass the final examination at the end of the course of study shall be appointed Apprentice Overseers for one year. During this period they shall retain their position as students, and shall continue to be borne on College and regimental lists. Their military pay and clothing shall be drawn from the Military Department by the Executive Engineers of the divisions to which they are attached. The Apprentices shall be provided with free quarters or compensation in lieu, and shall receive a staff allowance of Rs. 42½ per mensem Married men shall receive in addition the usual regimental allowance for wife and children. Any apprentice who is unfavourably reported on shall revert to his corps. Military apprentices shall receive travelling allowance at the rate of two annas per mile, or in case of portions of the journey performed by railway, at one anna and a half per mile for the journey from Madras to the site of the work to which they are posted, and for all journeys performed on transfer during their apprenticeship."

Sufficient to bring their total Consolidated pay upto Rs 80 per mensem.

119. This rule embodies the provisions of the first part of existing rules 55 and 56 and existing rule 57 which are as shown below:--

55. The course of study and examinations shall be those of the engineer subordinate class. Those men who pass the final examination shall, in order of merit and to the extent of the requirements of the Public Works department of Madras and Burma, be appointed apprentice overseers for one year. Two appointments as apprentice overseer in the Madras Public Works department will be given every year. In addition an appointment as apprentice overseer in the Burma Public Works department may be expected from time to time. Students who qualify, but do not pass sufficiently high for immediate appointment, shall revert to their regiments pending selection in any subsequent year in which less than the guaranteed number pass the examination.

56. During their practical ~~year~~ course of study the military apprentices shall retain their position as students, and shall continue to be borne on college and regimental lists. Their military pay and clothing shall be drawn from the Military Department by the Executive Engineers of the divisions to which they are attached. They shall be provided with free quarters or compensation in lieu and receive a staff allowance sufficient to bring their total consolidated pay up to Rs. 80 *per mensem*. Married men shall receive in addition the usual regimental allowances for wife and children. The apprentice overseers, if favourably reported on, shall, at the termination of the practical year, be transferred, in the rank of Sergeant, to the Unattached List, and posted to the Public Works department as first-grade overseers. Any apprentice who is unfavourably reported on shall revert to his regiment. An outfit allowance of Rs. 150 shall be granted to military apprentices on their appointment to the department.

57. Military apprentices shall receive travelling allowance at the rate of two annas per mile, or in case of portions of the journey performed by railway, at one anna and a half per mile, for the journey from Madras to the site of the work to which they are posted, and for all journeys performed on transfer during their apprenticeship.

120.

120- Provision is made for the completion of the full course by all Military students who are successful at the final examination. The allowance granted during the year of apprenticeship being considered insufficient, and the apprentice not being allowed to profit by the additions recently made to the soldiers' pay, provision is made in the proposed rule for the payment of a staff allowance of Rs.42½ per mensem in addition to regimental pay and allowances. This question has been separately raised by the Director of Public Instruction and the papers have been sent to the Public Works Department for remarks. It does not appear to be necessary to increase the staff allowance paid to these military apprentices and it is for consideration whether the staff allowance provided in the existing rule 56 may be retained.

1 Page 55 supra

This must wait orders on the Separate reference
Chs
8.3.7.

Get Mr Chubb the existing arrangement Rules
Maid
MR
13807

78 109 58

121. Proposed rule 48 runs

48. At the expiration of the year of apprenticeship the Military apprentices shall, in the order of merit determined by the College final examination and to the extent of the requirements of the Public Works Department, be appointed to the permanent establishment as first-grade Overseers. Any apprentices who may not be required shall revert to their corps, but shall be eligible for employment in the Public Works Department in a subsequent year, or in the Military Works Service at any time. An outfit allowance of Rs. 150 shall be granted to Military apprentices on their appointment to the Public Works Department.

Vide page 55 of the notes

122. This corresponds to the latter parts of the existing rules 55 and 56. The reference to the number of apprenticeships and to appointments in Burma in existing rule 55 has been omitted, as being unnecessary, Burma having never taken a student from the College. Allusion is also made to the eligibility of the military students for the Military Works Service.

vide Principal's remarks on page 13 of the tabular statement Classes E.

The rule may stand.
Col
8.3.7.

HOT
13.3.09.

79

110

59

Tuition Fees.

123. Proposed rule 49 runs

49. *Tuition fees.*—The following shall be the fees payable in advance by students while at the College. Fees shall, under no circumstances, be returned after a student has been admitted to the institution :—

Class.	For the full theoretical course.	Sessional rate.	Monthly rate.
	Rs.	Rs.	Rs.
Engineer class	360	130	12
Upper Subordinate class	180	65	6
Lower Subordinate class	100	37½	4

Page 16 of the Tabular Statement E

A

Vide Principal's remarks on page 16 of the Tabular Statement E

A

124. This corresponds to existing rule 58. The rates of fees approved by Government in paragraph 4 of G.O. No. 655 Educational, dated 3rd October 1905 have been adopted. "The sessional rates have been fixed at rather more than one-third and the monthly rates at rather more than 1/36th of those for the whole course." A term rate as suggested in paragraph 4 of the G.O. above quoted is stated to be unsuitable owing to the inequality of the length of the terms.

No 482
13.3.07.

Mercy & Laws. Clerk 5.3.7.

125- Proposed rule 50 runs

> 50. *Special fees.*—A contribution of Rs. 5 per annum shall be made by each student to the College Recreation Club. The riding course fee for students of the Engineer and Upper Subordinate classes shall be Rs. 15. The premium payable by mechanical engineer students at Perambúr is laid down in ~~paragraph 18.~~ 17."

126- This corresponds to existing rule 59. The contribution of Rs.3 per term for the recreation club prescribed by the existing rule 59 has been changed into Rs.5 per annum in the proposed rule. The words 'paragraph 17' at the end of the rule may be altered into 'Rule 17'.

No reason is given for the increase in fee, but the matter seems one to be decided by the Principal.

10.3.7.

2. 13.3.07

It represents the old amount of Rs 4. Every endeavour must be made to reduce expenses of students going in for these technical courses

S.T. 15/

81 60. 112 61

127. Proposed rule 51 runs

51. *Examinatim fees.*—Students shall pay fees at the following rates for admission to the College Examinations :—

	Rs.
Engineer class	20
Upper Subordinate class	15
Lower Subordinate class	10

These fees, which cover in each case all the examinations held during the course, shall be paid before the commencement of the final examination."

Existing rule
Vide Rule 60 on page 16 of the Tabular Statt. E

128. The rates of fees now proposed are the same as those now in force — vide existing Rule 60.

may be approved.
CBS
10.3.07

HDS
13.3.07.

8½

113 62

/

Scholarships, Stipends and Prizes.

(i) Engineer class.

129. Proposed rule 52 runs

52. *Government scholarships.*—Two scholarships of the monthly value of Rs. 15 each will be annually awarded in each of the three class-divisions. At the commencement of the first year of study they will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the monthly value of Rs. 15 will be awarded annually in each class-division by the Director of Public Instruction on the recommendation of the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan or Indian Christian, or a European or Eurasian, in the order named. One scholarship of Rs. 20 per mensem, tenable for three years, may, under Gazette Notification dated 11th August 1902, be awarded annually to a European or Eurasian student at the beginning of the course of study. »

Page 16 of the Tabular Statt E

130. This corresponds to existing rule 61 which says that "two of the three scholarships are to be awarded to the two candidates standing highest at the entrance examination and the third to a Muhammadan or a Native Christian or European or Eurasian in the order mentioned, who is admitted to a class and who does not secure a merit scholarship." Owing to the proposed abolition of the entrance examinations, the two merit scholarships for each class will at the commencement of the course be awarded by selection, (i.e.), by the Director of Public Instruction on the recommendation of the Principal and the scholarships will thereafter be awarded on the results of the sessional examinations. The third scholarship will as before be awarded to a student who does not hold one of the first named scholarships, preference being given to a Muhammadan or Indian Christian or a European or Eurasian in the order named. It is not, however, stated expressly in the revised rule that the award of the

first

first two scholarships which has to be made by the Director on the recommendation of the Principal should be based on merit: although this appears to be the obvious intention of the framers of the rule. It seems however, to be desirable to lay down expressly the basis on which these two scholarships are to be awarded.

13/- The last sentence in the proposed rule has been newly inserted with reference to Gazette Notification dated 11th August 1908, on pages 533-4 of Part I-B of the Fort Saint George Gazette dated 19th August 1902, sanctioning additional Scholarships in the College of Civil Engineering for European and Eurasian Candidates -

Gazette file kept back as it is bulky.

I would let the rule stand as it is. The granting of the 1st year scholarships can be only a matter of discretion when there is no examination. The Principal may be trusted to the utmost, & he will doubtless duly recognise merit.

Chs
10.3.7

The words "on the recommendation of the Principal" are not very clear. It would be better if the Principal were to submit four names to the DPI in the first case in accordance with the case of the special scholarship - leaving the final selection to the D.P.I. As the rule stands DPI would be bound to accept the Principal's nomination.

HDS

I think he should, otherwise we shall have friction later. D.P.I, who can have no knowledge of the claims of candidates, & the Principal C. let the rule stand.

8/7/07

132. Proposed rule 53 runs

53. *Other scholarships.*—The Government of Mysore awards Engineering scholarships annually of Rs. 30 per mensem tenable for three years. The University scholarships founded by the Maharajahs of Travancore and Cochin, of the value of about Rs. 30 per mensem, tenable for the minimum period necessary to qualify for the B.E. degree, may be held by students of the Engineer class. All these scholarships are tenable only by students who are subjects of the States concerned.))

133. This rule has been newly inserted with reference to rules ~~on~~ pp 110, 111 of the College of Engineering ~~Madras University~~ Calendar for 1906-

?

1102
13-3-09

May be approd
Clerk
16.3.7.

note 157 Boc.

134. Proposed rule 54 runs

"54. Scholarships may be reduced or forfeited for misconduct, idleness, or want of progress."

135. This is also new and will, if approved, serve as a good check on the scholarship-holders.

HDT
13.3.07.

A useful rule, but in any case the granting power has the right of withdrawing the grant. May be applied.

CA
6.3.7

117 66

136. Proposed rule 55 runs

"55. A gold medal will be awarded to the student who passes highest at the final examination. Prizes will be given to students who display proficiency in special subjects."

Page 16 of the Tabular Statt. E

137. This corresponds to existing rule 63. The provision in the latter part of the proposed rule in regard to the award of prizes corresponds to existing rule 75.

Page 18 ibid

may be appd.
Chd
10.2.7.

HHO
13.2.07.

87 118 67

138. Proposed rule 56 runs

56. During the year of practical training subsistence allowances of Rs. 50 per mensem for Europeans and Eurasians, and Rs. 25 per mensem for Indians shall ordinarily be granted; but these amounts shall be increased to Rs. 60 and Rs. 37½ per mensem respectively in the case of students posted to hill stations. The grant of subsistence allowance shall be contingent on the good conduct and satisfactory progress of the student; and on proof of misconduct or idleness the allowance may be withdrawn by the Principal on the recommendation of the Executive Engineer or the officer in charge of workshops. Travelling allowances to students joining or on the works shall be drawn at the rates sanctioned for officers of the third class under the Civil Service Regulations."

Page 17 of the tabular statt. E

139. This corresponds to existing rule 65, the only alteration being that the power of withdrawing the subsistence allowance on proof of misconduct or idleness is now vested in the "Principal on the recommendation of the Executive Engineer or the officer in charge of Workshops" instead of in the Executive Engineer under the original rule.

140. This modification may be accepted.

I see no objection but the proposal is one which will have to be accepted in P.W.D. HDT 13.3.07.

W. This may be accepted

13/3/07 accepted in P.W.D. Let it stand as the rule is now. 13/3/07

No reasons are given for the change, which, however, seems necessary as the ~~Principal~~ person under training during the year of training is still ~~the~~ in statu pupillari.

CHS 10.3.7.

817 1513

(iii) Upper subordinate class.

141. Proposed rule 57 runs

57. *Government scholarships.*—Two scholarships of the monthly valu of Rs. 10 each will be awarded annually in each of the three clas divisions. At the commencement of the first year of study the schola ships will be granted by the Director of Public Instruction on t recommendation of the Principal. At the beginning of the second a third years they will be awarded to the two students who obtain t highest marks at the sessional examinations. A third scholarship the monthly value of Rs. 10 will be awarded annually in each of th three class-divisions by the Director of Public Instruction on the recommendation of the Principal, to a student who does not hold on of the first-mentioned scholarships, preference being given to Muhammadan, or Indian Christian, or a European or Eurasian, in the order named. One scholarship of Rs. 15 per mensem, tenable for three years, may, under Gazette Notification dated 11th August 1902, b awarded annually to a European or Eurasian student at the beginning of the course of study."

Page 17 of the Tabular Statt. E

Page 81 of the note

142. This corresponds to the existing rule 64, the rule having been modified on the lines of the proposed rule 53. The remarks under the rule last quoted apply to this rule also.

See note against Rule 52
HSR
13.3.07.

Letter dated 87

The rule may stand.
Ches
10.3.7.

68. 89 120 69

143. Proposed rule 58 runs

58. *Walker scholarship.*—A scholarship of the value of about Rs. 13 per mensem is tenable for three years by a student who is a native of the Malabar, South Canara or Nilgiri district, and who possesses a fair knowledge of Malayalam or Canarese. "

144. This is the same as the existing rule 66, except that the period for which the scholarship is tenable is changed from 2½ to 3 years.

Page 17 of the Tabular Statement E

This rise will involve Rs. 1,000 per annum. I imagine that the Principal will see to this.
8.7

The change is necessary owing to the extended Course.
CBS
10.37

J.T.D.
13.3.07.

8/3
15/

69. 90 121 70

145. Proposed rule 59 runs

59. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress. "

146. This rule is new and is analogous to the proposed rule 54.

Page 64 of the note

Perhaps the one rule would suffice for all Scholarships. But it may be allowed to stand under each class.

Class 10.3.7.

1102
13.3.07

Bad drafting but let it stand

147. Proposed rule 60 runs

60. A silver medal will be awarded to the student who passes highest at the final examination. Prizes will be given to students who display proficiency is special subjects. The 'Rogers' prize of the value of about Rs. 20 shall be given annually in books to the silver medallist of the year."

48. This embodies the provisions of the existing rules 65, 67 and 75 — pages 17 & 18 of the Tabular statement Classes E.

The rule may be appd.
Pas Obs
6.3.37.

~ 402
13.3.37

92 123 72

149. Proposed rule 61 runs

61. During the practical course subsistence allowances of Rs. 30 per mensem for Europeans and Eurasians, and Rs. 20 for Indians shall ordinarily be granted; but these amounts shall be increased to Rs. 40 and Rs. 30 per mensem respectively in the case of students posted to hill stations. The grant of subsistence allowance shall be contingent on the good conduct and satisfactory progress of the student; and on proof of misconduct or idleness the allowance may be withdrawn by the Principal on the recommendation of the Executive Engineer. Travelling allowances to students joining or on the works will be drawn at the rates sanctioned for officers of the third class under the Civil Service Regulations. "

Page 17 of the Tabular Statt. E

Page 66 of the note.

150. This is the existing rule 68, the only modification being that the power of withdrawing the subsistence allowance is transferred from the Executive Engineer to the Principal as in proposed rule 56.

Subject to acceptance of PWD
ASE
13.3.07.

may be appd.
CES
20.3.7.

W may be accepted
SG 13/3/07
accepted in PWD.
13/3/07

17/3

(iii) Lower Subordinate class.

157. Proposed rule 62 runs

62. Two scholarships of the monthly value of Rs. 8 each will be awarded annually in each of the three class-divisions. At the commencement of the first year of study the scholarships will be granted by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second and third years they will be awarded to the two students who obtain the highest marks at the sessional examinations. A third scholarship of the monthly value of Rs. 8 will be awarded annually in each of the three class-divisions by the Director of Public Instruction on the recommendation of the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan, or Indian Christian, or a European or Eurasian, in the order named. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress."

Pages 17 to 18 of the Tab. Statt. E

Pages 16 & 17 of the note.

Page 17 to 18 of the Tab Statt. E

The 3 class divisions and, I presume, the Sub-overseer, the Surveyor & the draftsman's Classes. Two scholarships each will be granted i.e. 6 in all, the same number as at present existing. There seems no need to change.

Col
10.3.1.
HDS
13309. 57.

152. This corresponds to the existing rules 69 and 71. The award of the scholarships provided in the proposed rule is to be by selection as in the case of the Engineer and Upper Subordinate class students (c.f.) proposed rules 52 and 57. There is however one point which requires consideration. Under the existing rules 69 and 71 there are three scholarships for the suboverseer and surveyor class and three scholarships for the draftsman class which takes the place of these two classes, provision is made only for three scholarships. As the maximum number of students for admission into the Lower Subordinate class has been fixed at 60 as against 70 prescribed for the existing suboverseer and surveyor and draftsman classes, it is perhaps desirable to increase the number of scholarships by at least two.

For the Lower Subordinate class

73. 94 125 74

153. Proposed rule 63 runs

63. A bronze medal will be awarded to the student who passes first at the final examination. //

Page 18 of the Tab. Statt. E 154 This is existing rule 72.

Stop
13-3-07

Thus be appd.
Chas
10.3.7.

95 126 76

1

Special Prizes.

155. Proposed rule 64 runs

64. Three 'Sir Madhava Rau' prizes of the value of Rs. 20 each will be given annually, under certain prescribed conditions, for proficiency in practical work. When possible, one prize will be awarded to a Mahratta Brahman."

Page 18 of the Tab Statt. E 156. This is existing rule 74.

May be appd
Clos
10.3.7.

1002
13.3.07.

I don't like the "when possible". I presume the rule means that a Mah. Brahmin deemed worthy of the prize etc. Part I have cut out at the end - So let it stand at present, unless Director likes to alter it now

SFC 7.57

96 127 76

Stipends in Workshops

157. Proposed rule 65 runs

65. Four stipends of the monthly value of Rs. 6 for the first year, Rs. 7 for the second year, and Rs. 8 for the third year will be awarded annually to young men who have passed the elementary technical examination in carpentry or blacksmith's work, and who join the College workshop with a view to be trained as teachers in technical or industrial schools or in school workshops for manual training. The course shall extend over three years during which time the students shall be prepared for the highest technical examination in cabinet-making, or carpentry, or fitter's work. The students shall ordinarily work in the workshop for thirty-five hours per week and will be allowed one month's vacation and the ordinary authorized holidays. The stipends may be reduced or forfeited for misconduct, idleness or want of progress. The stipendiaries shall be required, if need be, to serve as teachers for two years, and to submit half-yearly reports as to how they are employed for three years after leaving the workshops."

'a view to be' may perhaps be altered into "the view of being"

Year Orest "with a View" 8/7

Page 18 of the Tab. Statt. E

158. This is existing rule 75.

H03
13.8.09.

may be app.
CH
10.27.

97 128 77

Leave and Dismissal. 159. Proposed rule 66 runs

"66. Students may obtain leave of absence by previous application to the Principal."

Paragraph of the Tab. stat. E

160. This is existing rule 80.

Letter
13.3.07.

May be appd.
Clas
10.3.7.

98 129 78

161. Proposed rule 67 runs

"67. Scholarship-holders shall forfeit their scholarships during any period, however short, of absence without leave, and shall be further liable to have their scholarships withdrawn, if they absent themselves without leave for five consecutive working days."

Para 19 of the Tab. Statt. E

162. This is existing rule 81.

may be adopted
Cab
10.3.7.

13-3-07

 99 13079

163. Proposed rule 68 runs:

68. In cases of severe illness certified to by a competent medical authority, sick leave with scholarship may be given by the Principal for a fortnight. If such leave is granted for a period exceeding a fortnight, the excess period shall be leave without allowances.

Page 19 of the Tal. Walk. E

164. This is existing rule 82.

Maybe app.
Cbt
10.3.7.

Std
13.3.09

100 131 80

165. Proposed rule 69 runs

69. Any student who has obtained admission into the College by means of a false certificate or by false representations of any kind, or who has been found guilty of grave misconduct, shall be summarily dismissed; the fact of such dismissal and the reasons for it being at once reported to the Director. "

Page 19 of the Tab. Statt. E

166. This is existing rule 85.

May be appd
Ches
10.3.7.

1108
13 3 07.

101

81

167. Proposed rule 70 runs

> 70. Leave may be granted during the practical course for a period or aggregate of periods not exceeding one month per annum. Such leave shall not entail forfeiture of stipend, but any leave in excess of one month shall involve loss of stipend, and the practical course shall be extended by a period equal to the excess over one month per annum of the leave granted."

Page 19 of the Tab. Statt. E

168. This is existing rule 84.

May be appd
Col
13.3.07.

1129
13.3.07.

81. 102 132 82

Board of Examiners

169. Proposed rule 71 runs

71. All sessional and final examinations shall be conducted by a Board of Examiners, consisting of a President and two members appointed by Government on the recommendation of the Director of Public Instruction for a term of three years. The President and members shall be engineers. Two members of the College Professional Staff shall be advisory members of the Board. When necessary, the Board may, with the sanction of Government, employ assistant examiners. The decision of the Board of Examiners in regard to the qualifications of any student appearing for examination shall be final. The names of all students declared by the Board to have passed a final examination shall be published in the *Fort St. George Gazette*. After completing the annual examinations, the Board shall submit a report to Government, through the Director of Public Instruction, summarising the results of the examinations. It may record in the report any observations of a general nature bearing on the working of the college, or make any suggestions it may consider expedient, provided such observations or suggestions arise naturally out of the examination work which the Board has to perform. The report shall be signed by the President and members of the Board. "

ordinarily

Page 20 of the Tab. statt. E

A

Vide Principal's remarks on page 20 of the Tab. statt. E

170. This is the same as existing rule 85 with the difference that the second and third sentences of the proposed rule have been newly put in. The addition made to the strength of the Board is in accordance with paragraph 10 of G.O. No.655 Educational, dated 3rd October 1905. The provision that the President and Members shall be Engineers is stated to have been made as "experience has shown that members "of the Board who are not Engineers do not "realize the requirements of a professional "course."

W.2
13.9.07.

[Barbukat is an Engineer. Here is no standard. As has been said a hundred times any one can declare himself C.E. Whenever let us have inserting ordinarily

May be opposed. It might never to be difficult to secure the services of two Engineers. To obviate any difficulty, however, the word 'ordinarily' may be inserted after 'shall' in the second sentence.

CAS
14.9.07.

Aers

/

82. 163 133 83

- Diplomas and Certificates.

171. Proposed rule 72 runs

72. *Engineer and Upper Subordinate classes.*—On the completion of the course in the College, a provisional certificate signed by the Principal and the President of the Board of Examiners shall be issued showing that the candidate has passed the final examination. On the satisfactory completion of the practical course a diploma, signed by the Principal and the Director of Public Instruction, shall be issued, setting forth the qualifications of the student for employment as a Civil Engineer, a Mechanical Engineer, or as an Upper Subordinate."

Page 20 of the Tab. Statt. E

172. This is existing rule 87 mutatis mutandis.

Perhaps 'Engineer' may be added to 'Upper Subordinate' of rule 1.

Ch's
10.3.7.

H.D.?
13.3.07

173. Proposed rule 73 runs

73. A student who has passed the final examination of the upper subordinate class, and who elects not to proceed to the practical course shall be granted a certificate of qualification as a Lower Subordinate.

174. This provision embodies the second sentence of existing rule 88 which says

88. *Sub-overseer and Surveyor class and Draftsman class.*—On the completion of the course, a certificate signed by the principal and the president of the Board of Examiners shall be issued, stating that the student has passed the final examination and is qualified for employment as a sub-overseer and surveyor or as a draftsman. A student who has passed the final examination of the engineer subordinate class, and who elects not to proceed to the practical course, shall be granted a certificate of qualification as a sub-overseer."

H52
13.3.07

May be appd. but not Engineers' Boards to "Lower Subordinate"? Cf rule 1.

Cas
10.3.7.

105 84. 135 85

175. Proposed rule 74 runs

74. *Lower Subordinate class.*—On the completion of the course, a certificate signed by the Principal and the President of the Board of Examiners shall be issued, stating that the student has passed the final examination and is qualified for employment as a Lower Subordinate or as a Surveyor or a Draftsman."

176. This corresponds to the first part of existing rule 88.

× Page 83 of the note

13.3.07

See note on previous page.
CAS
10.3.7.

10685.

136 86

Employment of Passed students

177. Proposed rule 75 runs

75. *Engineers.*—One appointment as apprentice engineer in the Public Works department shall be conferred annually on the student who passes highest at the final examination. The apprenticeship shall commence on the 1st July following the final examination and shall ordinarily extend over twelve months, when the apprentice, provided he has fulfilled the conditions of paragraph 11, chapter II, volume I, Public Works department code, shall be brought on the permanent establishment of the Public Works Department, provincial service, as third-grade Assistant Engineer. Other engineer students, who have satisfactorily completed the practical course, shall be eligible for appointment to the temporary Upper Subordinate establishment of the Public Works Department, whence transfers may be made to the permanent establishment to fill existing vacancies on the recommendation of Superintending Engineers. Fully qualified Engineer students may also be appointed Assistant Engineers under Local Boards.

Page 20 of the Tab. Stat. E

178. This is existing rule 89 with the difference that the condition regarding the passing of the B.E. degree examination which is found in the existing rule has been omitted with reference to rule 16.

Page 19 of the notes.

vide Principal's remarks on page 20 of the Tab. Stat. E

179. This draft rule is stated to be only transitory and will have to be modified in common with others relating to the Engineer class, when the bifurcation between the civil and mechanical courses can be introduced.

1 Hol
13.3.09

may be appd
Chs
10.3.7.

Copy sup. Not 1594 Col

86. 107 137 87

180. Proposed rule 76 runs

76. *Upper Subordinates.*—One appointment annually as Overseer, third-grade, in the permanent Upper Subordinate establishment of the Public Works Department shall be conferred on the civilian Upper Subordinate student who passes highest at the final examination, provided he has satisfactorily completed his practical course and provided a vacancy exists for such appointment. Other civilian Upper Subordinate students, who have satisfactorily completed the practical course and for whom there are vacancies, shall be eligible for appointment to the temporary Upper Subordinate and Lower Subordinate establishments of the Public Works Department, whence transfers may be made to the permanent Upper Subordinate establishment to fill existing vacancies on the recommendation of Superintending Engineers. No person will be eligible for appointment to the permanent Upper Subordinate establishment unless he be a fully qualified Engineer or Upper Subordinate. Appointments as Delta Superintendent, Minor Irrigation Overseer and as Overseer to District Boards and Municipalities are also open to qualified Upper Subordinates.

Military apprentices required for the Public Works Department will be appointed first-grade Overseers under paragraph 48 of these rules. In alternate years, one appointment to the Engineer establishment, Provincial Service, will be offered to a senior selected Upper Subordinate of the Public Works Department."

rule 47

Page 21 of the Tab. Statt. E

181. This is existing rule 90 mutatis mutandis. But the words "under rule 48" may be substituted for the words "under paragraph 48 of these rules" occurring in proposed rule 76.

Ans

H.D.
13.3.07.

May be appd.
Ans
10.3.7.

108 138 88

182. Proposed rule 77 runs

77. *Lower Subordinates.*—Qualified Lower Subordinates will be appointed to the Public Works Department as Sub-overseers and as Draftsmen as vacancies occur. They will be eligible also for employment as Channel Superintendent in the Public Works Department and as Deputy Surveyor in the Survey Department. When the services of temporary men are required for special surveys not undertaken by the Public Works subordinate staff, the Public Works officers in charge are instructed to select for such employment none but qualified Lower Subordinates of the College. "

183. This is existing rules 91 and 93 mutatis mutandis.

Page 21 of the Tab. Statt E

J152.
13.3.07

may be appd.
Chd
6.3.7.

 109 139 89

184. Proposed rule 78 runs

78. Students of the Engineer and Upper Subordinate classes who pass sufficiently high to merit guaranteed appointments shall, before appointment, produce certificates of physical fitness for the work of the Public Works Department. The medical examination for such certificates shall be held at the end of the practical course. Other qualified students will, on appointment to the Public Works Department, be required to produce certificates of physical fitness under the ordinary rules of the public service.

Pages 21 & 22 of the Table Talk

What is a "guaranteed" in this rule & in rule 79? Is the word "guaranteed" a dangerous word to use. 185. This is existing rule 95, amended does it mean its ~~to~~ applies whether substituted or substantive, & may be appt. (rules 75, 76 & 77. If so, is 330 good enough? Or should it be better? What about a language test before appt. & D.P.W.? (vide para. 1(2) of draft order — 17.3.07

Cos 10.3.07.

157

110 140 40

186. Proposed rule 79 runs

79. The guaranteed appointments referred to are reserved for statutory natives of India, provided that natives of pure Asiatic descent shall be admitted only if their parents or guardians are domiciled in the Madras Presidency or the States of Travancore, Cochin, Pudukkóttai, Sandúr, Banganapalle and Mysore."

Page 22 of the Tab. Statt. E 187. This is existing rule 94.

140
(330)

may be appd
Cbs
10.37.

See under rule 78
87

90. 141 91

188. Proposed rule 80 runs

80. It shall be the duty of the Principal to render all reasonable assistance to passed students who may not be appointed to the Public Works Department, in seeking employment under Local Boards and Municipalities and other agencies. With this view lists of qualified men, with remarks as to their attainments, conduct, etc., shall be circulated annually to Local Boards and Municipalities, with recommendations that they may be employed in suitable posts when opportunities offer, and the attention of such Boards should be invited to G O., No. 2773 L., dated 12th December 1893."

189. This is existing rule 95.

112 142 92

Casual Students.

190. Proposed rule 81 runs

81. Applicants who possess sufficient general education to follow the instruction given, who produce certificates of good health and good character, make the usual deposit and pay the prescribed fees, may be admitted as casual students to the Engineer class, provided that accommodation is available for them. They may present themselves for the term and final examinations, and if they pass they will receive the provisional certificates issued to successful students at the end of the College course; but they shall not be eligible for guaranteed appointments, or for scholarships or prizes, or for the free practical course.

191. This rule corresponds to existing rules 96 and 97 which are

CASUAL STUDENTS.

96. Applicants who pass the entrance examination, and who produce certificates of good health and good character, make the usual deposit and pay the prescribed fees may be admitted as casual students to the engineer class, provided that accommodation is available for them. They may present themselves for the term and final examinations, and if they pass they will receive provisional certificates issued to successful students at the end of the college course; but they shall not be eligible for guaranteed appointments or for scholarships or prizes or for the free practical course.

97. Other casual students may also be admitted to the engineer class for one or more terms, on payment of the prescribed fees, for instruction in special subjects, provided that they possess sufficient general education to follow and profit by the instruction given and that accommodation is available for them. They shall not be eligible for any of the college examinations, but may receive a certificate of attendance.

97-A. Any duly qualified teacher employed in a departmental institution or in any school recognised by the Madras Educational department may, with the sanction of the Director of Public Instruction, receive a course of training in any subject taught in the College, free of charge.

97-B. A teacher who is in Provincial or Local or Municipal employment may, with the sanction of the Director or President, or Chairman, as the case may be, be allowed during the course of training a portion not exceeding one-half of the pay of his substantive appointment. Certificated teachers in receipt of salary grants whom a manager may wish to attend a course will be eligible for the continuance of their grants during such course, provided that the Principal of the College certifies that their conduct has been good and their progress satisfactory.

97-C. Teachers employed in Government, Local or Municipal Schools who are required to receive a course of training shall be entitled (subject in the case of the last two classes to the sanction of the Board or Municipal Council concerned) to draw travelling allowances from Provincial, Local or Municipal Funds, respectively, for a single journey on joining and on leaving the College, at rates which shall follow the classes to which the teachers belong as defined in the Civil Service Regulations. Other students shall not be allowed travelling expenses from public funds.

192—

192. Under these rules two descriptions of casual students may be admitted to the Engineer class (1) comprising those who go through the whole course prescribed for the Engineer students and (2) those who are admitted for one or more terms for instruction in special subjects. The proposed rule retains only the first class of students, while the second, which contemplates the study of particular subjects has been omitted as the students have been unrepresented in the past and it would be inconvenient to accept such persons as the staff is not strong enough to provide for special courses of instruction."

Vide Principal's remarks on page 22 of the statt. E

Page 23 of the Tab. statt: E

193. Existing rules 98 and 99 which provide for "independent candidates" have been omitted as under revised rules 15, 21 and 26 students can pass the final examination only at the end of the College course and no persons can therefore present themselves as independent candidates.

Pages 17, 25 & 30 of the Notefile.

2 H07 13.3.07.

The special privileges to teachers have been withdrawn. Perhaps there is no need to keep them. The special instruction of the College comes seem of doubtful utility to such men.

CA 10.3.7.

93. 114 144 94

Registers and Accounts.

194 · Proposed rule 82 runs

82. The following registers shall be kept:—
(1) Register of admissions and withdrawals for each class.
(2) Monthly register of attendance, fees and fines for each class.
(3) Acquittance roll and pay abstract.
(4) Library catalogue and register and inventory of valuable stock.
(5) Register of scholarships.
(6) Register of expenditure on contingencies. "

Page 23 of the Tel. draft E195. This is existing rule 100.

VIX
1339

They be appd
Ces
10.3.7.

115 145 95

196. Proposed rule 83 runs

> 83. The register of valuable stock shall be scrutinized every year, the work being entrusted in rotation to one of the senior members of the staff, who shall certify to the correctness of the stock and the entries in the register."

Page 24 of the tab. statt E 197. This is existing rule 101.

may be appd.
Chf
10.3.7.

I Hot
13.3.09.

116

146 96

/

Miscellaneous.

198. Proposed rule 84 runs

(Only Civilian students!!)

84. All civilian students shall provide themselves with the prescribed books and drawing instruments. Strict observance of the standing orders of the institution as regards attendance, discipline, etc., shall be required from all.

Page 24 of the Tab. Statt E

199. This is existing rule 102 with the omission of the sentence "They will be non-resident."

Ltr dtd 13.8.09

They be appd Col 10.3.7.

Omit. St. Record Relevant Employment Rule

See rule 86.

200. Proposed rule 85 runs

85. The practical course will extend over a complete year, and this period will be reckoned from the dates on which the students join their divisions. Students during their practical course shall not be under the supervision of the Principal, but officers under whom such students are serving will be required in the Public Works Department to furnish to the Principal half-yearly reports of their progress in such form as may from time to time be prescribed by Government. All allowances during the practical course shall be debited to the Public Works Department."

Page 2 of the Tel. Stalk. E

201. This is existing rule 105.

Thus he appt Ass 10.3.7.

1402
13-3-07.

 118

14898

202. Proposed rule 86 runs

86. The provisions of the Educational Rules relating to accommodation and sanitation, discipline, dress, periodical examinations and punishments shall apply *mutatis mutandis* to the College, in so far as its special character permits of their application.

Page 24 of the Tab. Statt. E 203. This is existing rule 104.

May be appd
Clerk
10.3.7.

1402
13.3.07.

204. Proposed rule 87 runs

"87. The Principal shall invariably obtain the previous sanction of the Director for any deviation from the prescribed rules."

Page 24 of the Statt. E

205. This is existing rule 105.

18.3.07

Since the appn
Circ
10.3.7.

Time Table

206. Before concluding this note it appears to be necessary to bring to notice one important point.

207. Existing rules 76 and 77 run –

76. The hours of attendance at the College shall be from 10 A.M. to 1 P.M. and from 2 to 4-30 P.M. The field work and workshop hours shall, from time to time, be fixed by the Principal.

77. The principal shall submit a time table annually for the approval of the Director. No material change shall be made in the time table or in the general arrangement of the college work without his sanction."

Page 180 of the Tab. Statt. E

208. The Principal of the College observes "Existing rule 76 is not and cannot be "adhered to. Work at the College begins "daily at 6-30 A.M. for classes attending "the workshop, survey, field work and chemi-"cal laboratory. The field work classes "remain out till 10 A.M. and do not com-"mence indoor work till 12 noon or in "some cases till 1 P.M. Classes attending "for gymnastics and drill do so from 6-30 "to 8-30 in the morning and from 4-10 to "5 in the afternoon. In the special con-"ditions of the College no hard and fast "rule can be laid down. A full day's work "however, is exacted from each student on "every working day. Existing rule 77 is "omitted because the arrangement of the "time-table is one that may well be left "to the sole discretion of the Principal "who is responsible for the working of the "institution."

In the absence of special circumstances there seems no reason why the College time-table should not as usual be submitted for the sanction of the D.P.I. to whom the Principal is subordinate by rule 3 on p 3 above. Subo. that the present rule 77 should stand. Rule 76 may perhaps with advantage be omitted. When there is so much out-door work in the College, perhaps no hard & fast rules can be laid down. The Changes of the weather must in these circs. be taken into Consideration.

209. In view, however, of the recent correspondence in connection with the Law College

College, it is for consideration whether it will not be better to retain the rule which requires the submission of the time table to the Director and his sanction to any material alterations therein. Moreover, there appears to be no reason why a rule which obtains in the case of Arts and other Professional Colleges should not be enforced in the case of the College of Engineering also.

210. It has been decided in the Notes with D.O. No. 401-1, dated 23rd. February 1907, ~~that the~~ revised rules should be brought into force from 1st. April 1907.

NDQ
6.3.07

Sec.

I have notes marginally where comment seems necessary. The rules are generally in accordance with the views of Govt. as expressed in G.O.'s 655 Edl. dt. 3.10.05 and 657 Edl. dt. 10.10.06. As a matter of drafting it may perhaps be advisable to adhere throughout to the terminology of rule 1. The changes can be made in this office.

Cod
10.3.07.

XII

Committee Sec. Mr. Lindsay please Cas. 10/3

Very urgent

LOCAL & MUNICIPAL
14 MAR 1907
SECRETARIAT.

No. 27.28. 26.30 92 Ri

S.P.O. has been instructed accordingly [13/3/07]

GOVERNMENT
13 MAR 1907
PUBLIC WORKS DEPARTMENT.

Encl. no. 367-1
13-3-07

P.W.D. no. Rev 305
13.3.07

Pages 66, 71 & 91 of note file.

Pages 99 & 100 of note file.

101 122 152/02

The file cuts may be sent very urgently to C.S. (W) for remarks, with special reference to rules 56. 61. 81 and paragraphs 206-8 of the Office note.

2. There seem to be very few conditions on which specific orders are required. The chief point relates to the prescription of separate minima in certain subjects, q.v. Rules 15. 21. 26

3. The rules will have to come in the Gazette of Tuesday 26th. & they will come into force from 1st April. [It is presumed that S.P.D. has the matter in type. If not he may set it into type in advance, subject to petty alterations which may be ordered]

H.W.J.
13-3-07

Cy.
Plod. no.

W.
For remarks.

S.G.
13/3/07.

The provisions of rules 56. 61. 81 and the views of the Educt. Dept. against paras 206-8 of the note are accepted. The inclusion of such a rule as old

Dear

102 123 153 103

I would leave it open to the Principal to provide in this time table for special circumstances, although the general scheme of work in normal conditions would go before the Director —
I do not see any other points on which remarks of P.N.D. comm to be called for.

18/3/07.

Educ[n] U.S.

Rec.
Ches
14.3.7.

To the Hon. Sir Forbes C.I.

402
14-3-07.

I have noted marginally a few points. (Some of the drafting & the English flow ✕ leaves capable of much improvement: but in the time it has been impossible to do more than correct a word or phrase here & there)

15/3/07

103
124
154

Please note Dept C.S. - set a clean proof of the rules as revised. The C.S. Notes refer to the question of language exam and some number of the classes. - Ah. Please look up & keep the point raised & the H.M. on pp 74 - 85 (re the Lt. Maclaverock prize - as a 'qualified appointment'

W
8/7

The draft order placed below is submitted for approval.

2. On page 18 of the notes, the Secretary suggested that a separate minimum of 33 per cent might be assigned for (a) Mathematics (b) Engineering and (c) Drawing; but according to revised rule 13, these are subjects of study have been classed into two branches, Branch I - Mathematics and Science, and Branch II - Engineering and Drawing is placed under the latter head. According to the old rules, Mathematics, Engineering and Drawing, were separate subjects. Under revised rule 13, there are no two separate subjects as 'Engineering' and 'Drawing'; but under Branch II; Engineering, there are - Drawing, Hydraulic Engineering and

Page 14 of note file

Rule 11 of existing rules vide page 14 of note file.

do do

Dear

104
125
155
105

Page 14 of note file

and Mechanical Engineering. For orders as to whether hydraulic Engineering and Mechanical Engineering may be substituted for Engineering in the section proposed rule 15 suggested by the Secretary on page 18 of note file. In the meantime, this rule and proposed rule 21 (now altered into rule 20) have been modified in accordance with the Secretary's orders. In the case of the Corresponding rule 26, which relates to the Lower Subordinate Class, it does not appear that engineering is one of the subjects of study prescribed for this class - vide proposed rule 24 on page 28 of note file, although Drawing and Surveying are find a place among the subjects of study. Orders are solicited whether in the case of these students it would be enough to prescribe a separate minimum as regards drawing and Surveying only.

I think so
HA
The draft rule has been altered accordingly
Page 25 of note file.

A

B.

Page 30 of note file

3. Page 74 of note file - Please see the rules for the award of Sir T. Madhava Rao prizes approved in G.O. No 397 Educational dated 2nd June 1890. Rule 4 says that one prize of the value of Rs 20 will be awarded to the Mahratta (a native of the Madras Presidency including its native states) who displays the greatest proficiency in workshop

Step 10

Balance

workshop practice, practical surveying or practical chemistry"; and under Rules in the event of there being no Maharatta Brahman displaying proficiency in any of these branches the third prize will be awarded to the best Student in practical Chemistry. For orders whether for the second sentence of proposed rule 6 may be substituted the following: —

Page 74 of note file

"One prize will be awarded to a Maharatta Brahman, if there who displays proficiency in workshop practice, practical surveying or practical chemistry."

This follows ruling on page 397 ante 52.6.90 - 10.

C.

I take it that in the case of cleanliness the best student here will be a Calcutta Brahman

14. Page 88 of note file. - The guaranteed appointments referred to in proposed rules 78 & 79, are the appointments mentioned in proposed rules 75 - 76 (altered in the appendix to the draft order in rules 74 and 75). The necessary Corrections have been made in the rules.

Pages 85 & 86 of note file - 87

appear to be

RDD
18.3.07

Lee
Col
18.3.7.

For approval of Regn.

Orders are solicited as to points A - B on page 103 supra

As to point C. the substitution suggested by the Officiating Secretary may be made - but we must add "or of those of the Calcutta Students of Engineering proficiency may be

these branches to the best students in practical chemistry".

But it would be better merely to omit the latter portion of the rule. The first portion refers sufficiently to the "prescribed conditions".

HDB
15.3.07

Agree as to A. B & C: but the Office should have power to make appropriate drafting amendments of the Rules & in the Memorandum. That necessary modification with respect to C Rules no 8 does from me: as a prize must be given in accord with the intentions of the founder.

7/9/13

Circ

128 to 7 158 108

Amended - retype draft - a check
with H. O. S. & B.

Is it possible to get Class into
London Gazette? If not they must
wait till next week

WM
1830

The draft has been checked and retyped -
Rules 14, 20 & 25 have been modified with
reference to Hun's orders - Please see especially the
portion marked A on page 2 of the draft.
2. It does not appear that it will be possible
to get this in tonight's Gazette. As the rules are
to come into force from 1st April 1907,
it will be sufficient if they appear in
the Gazette of the 26th Instant (next Tuesday's
issue).

RD
19.3.07

My object was to get
it as much ahead as
possible - but the
precaution has been
published - so it
does not matter
WM
19.3.07

I rule is better upon the G.O.
The opinions are completely
a matter of opinion as regards
reference to the Application
Of Gazette 2 June 07

WM
19.3.07

Done.
RD
20.3.07

Please note this.
RD
20.3.07

The previous Gos. should be placed
on S.T.

H.D.T.
19.3.07

(Copies 1548 20-3-07)

129

159

[L. & M. 39. 8,600—30-11-05]

Educational

~~LOCAL AND MUNICIPAL~~ DEPARTMENT.

Papers to be read in Proceedings:—

Again G. O., No. 723, dated 12 Dec 1905. — J/A.

Again G. O., No. 655, dated 3 Oct 1905.

Again G. O., No. 657, dated 16 Oct 1906. — D

Current No. 367 From the D.P.I., No. 7765, dated 13 - 2 - 1907

" " " " " " "

" " " " " " "

P.S.

ORDER. No. , dated 190 .

With the letter read above the DPI submits

The revised rules relating to the constitution and working of the College of Engineering ~~submitted by the Director of Public Instruction~~ are approved, subject to certain verbal alterations ~~which have been made therein~~, and to the following remarks and exceptions :-

(1) ~~Proposed rule 6.~~ This rule ~~will be omitted, as it is redundant, the question of recruiting the College~~ staff from the Public Works Department being still unsettled.

It is not necessary to include in the Rules any statement as to the recruitment of the teaching staff

(2) ~~Proposed~~ Rule 12. ~~With regard to the omission~~ of the Language Course from this rule, it appears to Government that there will be a great practical advantage in having language classes at the College, as the students have to qualify and pass in the vernaculars if they are to join the public service. The matter will

As per Rule 12 as submitted

While I am ready to act in accordance with the proposals of the Committee appointed under G.O. 723 dt. 12th Dec 1904. as accepted by Govt:

The Rules as revised by Govt are appended to this Order. The only pages of note file Pages 1 to 4 contain a few points on which it is desirable to remark.

Note This is not the reason

Pages 14 to 15 of note file

130

160

20.

B/Rules 15, 225. Separate Petitions have been assigned for Page 31 of note file. for Mathematics, Drawing, Hydraulic Engineering and Mechanical Engineering, and for Survey - Surveying, Page 47 of note file. Surveying in the case of the Students of the Upper Subordinate class. and for drawing

Pages 48 to 50 of note file

Pages 55 to 56 of do -

Page 59 of do

Page 95 of do

will however be further considered and separate orders issued later on.

(3) ~~Proposed rule 27.~~ R 6/1 The limitation ~~in this rule~~ of the number of students to be admitted to the Lower Subordinate class to 60 ~~appears to be undesirable, if it~~ Have a material effect in is likely to keep out students pursuing professional studies from ~~Should any objection arise on this ground,~~ the rule will be reconsidered.

(4) ~~Proposed rule 41.~~ R 1 The Director of Public Instruction is requested to report what arrangements are made for the cheap supply of books and instruments to the students. ~~Meanwhile the rule will be allowed to stand.~~

(5) ~~Proposed rule 42.~~ R 1 The words "born and" occurring in clause (c) of the rule will be omitted, so as to bring the certificate into accord with the body of the rule.

5 (6) ~~Proposed rule 45.~~ R 6 Separate orders will issue on the question of granting enhanced allowances to the Military apprentice overseers. In the meantime, the existing arrangements should stand. ~~This rule has been altered accordingly.~~

2 (7) ~~Proposed rule 50.~~ R 49 The annual contribution to the College Recreation Club ~~will be~~ has been reduced to the original sum of Rs.4 per annum.

(8) Proposed rule 84. This rule appears to be unnecessary with reference to

161

to the proposed rule 86 and will be omitted.

(7/) 3. The Government consider that Rule 77 of the existing rules which provides for the submission of the College time table to the Director of Public Instruction should be retained.

3. The rules, ~~as modified by Government~~ are printed as an appendix to these ~~Proceedings~~ and will be published in the Fort St. Rose Gazette. They shall come into force on the 1st April 1907.

18.3.07.

18.3.7.

18.3.07

To The D. P. I.
P. W. Dept
Superintendent Govt Pres-

Appendix:-

[L & M. 39.]
8,000--30-11-05.

Educational

~~LEGAL AND MUNICIPAL~~ DEPARTMENT.

Papers to be read in Proceedings :—

Again G. O., No. 723 Ed., dated 12th Decr. 1904.
Again G. O., No. 655 Ed., dated 3rd October 1905.
" " 857 Ed., " 10th October 1906.
Current No. 367 From the D. P. I., No. 7765, dated 13. 2. 1907.
" " " " " " " "
" " " " " " " "

P.S.

ORDER. No. 159, dated 20. 3. 1907.

With his letter read above, the Director of Public Instruction submits the revised rules relating to the constitution and working of the College of Engineering which have been drawn up in accordance with the proposals of the Committee appointed under G.O., No.723 dated 12th December 1904 as accepted by Government. The rules, as revised by Government, are appended to this order. There are a few points on which it is desirable to remark.

(1) It is not necessary to include in the rules any statement as to the recruitment of the teaching staff.

(2)

(2) Rule 12. The rule as submitted omits the Language Course.. It appears to Government that there will be a great practical advantage in holding language classes at the College, as the students have to qualify and pass in the vernacular if they are to join the public service. The matter will however be further considered and separate orders issued later on.

(3) Rules 14, 20 and 25. Separate minima have been assigned for Mathematics, Drawing, Hydraulic Engineering and Mechanical Engineering in the case of the students of the Engineer and Upper Subordinate class and for Drawing and Surveying in the case of the students of the Lower Subordinate class.

(4) Rule 26. If the limitation of the number of students to be admitted to the Lower Subordinate class to 60 is likely to have a material effect in keeping out students from pursuing professional studies, the rule will be reconsidered.

(5) Rule 40. The Director of Public Instruction is requested to report what arrangments are made for the cheap supply of books and instruments to the students.

(6) Rule 46. Separate orders will issue

issue on the question of granting enhanced allowances to the Military apprentice overseers. In the meantime the existing arrangments should stand.

(7) Rule 49. The annual contribution to the College Recreation Club has been reduced to the original sum of Rs.4 per annum.

(8) The Government consider that Rule 77 of the existing rules which provides for the submission of the College time-table to the Director of Public Instruction should be retained.

2. The Rules will be published in the Fort St. George Gazette. They shall come into force on the 1st April 1907.

To

The D. P. I.
" P. W. Department.
" ~~Superintendent, Govt. Press~~

Editors' Table.

அஞ்சுகம் சுப்பிரமணியன்

Tamil Nadu Archives
Egmore, Chennai - 8

I

Form of requisition of documents by Research Scholar

Name AJANMA SUBRAMANIAN Enrolment Number 11758 Machine No. of requisition. 581

Subject of Research Technical Education

Records Requested		Date	Initials of Research Scholar	Supplied by Stack	Date	Stack Register entry	Initials of Stack incharge
Sl.No.	Details						
1.	G.O. ~~154~~, 383-384, 1.6.1906, Edn (Pers)		AS	91	23/6/9		
2.	G.O. 159, 20.3.1907, Edn (Pers)		AS				
3.	G.O. 471-72, 14.7.1911, Edn (Pers)		AS				
4.	G.O. 525-26, 14.6.1912, Edn (Pers)		AS				
5.	G.O. 645-46, 11.7.1913, Edn (Pers)		AS				

Sl.No.	Date of receipt by Research Scholars	Initials of Research Scholar	Return to Stack	Date	Stack Register entry	Initials of Stack incharge
1.						
2.						
3.						
4.						
5.						

.....

Name/Enrolment No.
Subject of Research

Sl.No.	Date of return by Research Scholars	Initials of Research Hall	Remarks
1.			
2.			
3.			
4.			
5.			

G.C.P.—201/1—Cps. 10,000—16-10-06(P4-1)

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