

Government of Madras.

EDUCATIONAL DEPARTMENT.

Recd.

Enclosures

} 1909.

Regd.

Spare copies.

G.O., No. 191, 29th March 1909.

College of Engineering.

Accepting the proposal of the Director of Public Instruction regarding the revised rates of fees and the revised scheme of examination in the — and ordering the publication of the revised rules for the College in the *Port St. George Gazette*.

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OUTY RECORD.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Order—No. 191, Educational, dated 29th March 1909.

The Government accept the proposals of the Director of Public Instruction regarding the revised rates of fees and the revised scheme of examination including the redistribution of marks in the College of Engineering. The alterations in the rules of the college proposed by the Director of Public Instruction are also approved.

2. The following notification will be published in the *Fort St. George Gazette* :—

NOTIFICATION.

The Governor in Council is pleased to sanction, in supersession of all rules previously prescribed, the following revised rules for the College of Engineering, Madras :—

REVISED 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 (CIVIL AND MECHANICAL).

11. The courses of instruction shall extend over four years, of which three shall be spent in the College and the fourth chiefly on works. The courses 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. The course of study shall be the same for Civil and Mechanical Engineer students during the first year. Civil Engineer students shall spend the final year in a Public Works Division and Mechanical Engineer students in an Engineering workshop.

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

CIVIL ENGINEER CLASS.										
Branch I.										Marks.
(a)	Mathematics—									
	Pure—									
	Algebra	..	..	..	..	..	..	..	25	
	Geometry	..	..	..	..	..	..	..	25	
	Mensuration	..	..	..	..	..	..	..	25	
	Trigonometry	..	..	..	..	..	..	..	25	
	Calculus	..	..	..	..	..	..	..	125	
	Applied—									
	Kinematics	..	..	..	..	..	..	..	75	
	Kinetics	..	..	..	..	..	..	..	75	
	Hydrostatics	..	..	..	..	..	..	..	75	
								Total	450	
(b)	Science—									
	Chemistry	..	..	..	..	..	..	..	150	
	Physics	..	..	..	..	..	..	..	150	
	Geology	..	..	..	..	..	..	..	150	
								Total	450	
Branch II.										
Engineering—										
	Geometrical Drawing	..	..	..	..	..	..	..	150	
	Freehand and Model Drawing	..	..	..	..	..	..	..	100	
	Building Drawing (1st Year)	..	..	..	..	..	..	..	100	
	Machine Drawing (do.)	..	..	..	..	..	..	..	100	
	Surveying (do.)	..	..	..	..	..	..	..	150	
	Applied Mechanics	..	..	..	..	..	..	..	400	
	Construction	..	..	..	..	..	..	..	400	
	Hydraulic Engineering	..	..	..	..	..	..	..	400	
	Drawing	..	..	..	..	..	..	..	800	
	Surveying	..	..	..	..	..	..	..	350	
	Engineering Laboratory	..	..	..	..	..	..	..	600	
	Workshop	..	..	..	..	..	..	..	300	
								Total	3,850	

Physical Exercises .. 250

Grand Total .. 5,000

MECHANICAL ENGINEER CLASS.

Branch I.

(a) Mathematics—
Pure—

	Marks.
Algebra	25
Geometry	25
Mensuration	25
Trigonometry	25
Calculus	125
Applied—	
Kinematics	75
Kinetics	75
Hydrostatics	75
Total	450

(b) Science—

Chemistry	150
Physics	150
Total	300

Branch II.

Engineering—

Geometrical Drawing	150
Free-hand and Model Drawing	100
Building Drawing (1st year)	100
Machine Drawing (do.)	100
Surveying (do.)	150
Applied Mechanics	400
Mechanical Engineering	600
Drawing	800
Engineering Laboratory	600
Electrical Engineering	400
Electrical Laboratory	300
Workshop	300

Total .. 4,000

Physical Exercises .. 250

Grand Total .. 5,000

13. 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. 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 and laboratory work.

14. In order to pass the sessional examination at the end of the first year, a student must obtain half the marks awardable at that examination. To pass the sessional examination at the end of the second year, he must obtain half the aggregate marks awardable at that and the previous sessional examination. To pass the final examination he must obtain half the total marks allotted to the whole course, and, in addition, 33 per cent. of the marks assigned to each branch. 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. Civil Engineer students 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. Mechanical Engineer students will proceed to the Public Works Workshops. One Mechanical Engineer student will be permitted each year to join the Madras and Southern Mahratta Railway

Locomotive shops at Perambur, 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 Perambur 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.

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

BRANCH I.—MATHEMATICS.

	Marks	Marks.
1. Arithmetic (100), 2. Algebra (100), 3. Geometry (100), 4. Mensuration (100), 5. Plane Trigonometry (100)	500	

BRANCH II.—ENGINEERING.

1. Drawing—Freehand and model drawing (100), geometrical drawing (200), machine drawing (200), building drawing and estimating (400)	900
2. Applied mechanics	300
3. Construction	300
4. Hydraulic engineering	300
5. Mechanical engineering	200
6. Surveying—Surveying with chain, compass and plane table (150), levelling (150), theodolite surveying (200)	500
Workshop Practice	2,500
Physical Exercises	200
	3,400

19. A sessional examination shall be held at the end of each year at which portions of the above subject 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 the sessional examination held at the end of the first year, a student must obtain half the marks awardable at that examination. To pass the sessional examination at the end of the second year, he must obtain half the aggregate marks awardable at that and the previous sessional examination. To pass the final examination he must obtain half the total marks allotted to the whole course, and, in addition, 33 per cent. of the marks assigned to each branch. 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.

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

	Marks.
(1) Drawing—Freehand and model drawing (100), Geometrical drawing (150), Machine drawing (150), Building drawing and estimating (300)	700
(2) Applied Mechanics	150
(3) Construction	250
(4) Surveying—Surveying with chain, compass and plane table (150), levelling (150), theodolite surveying (300)	600
Workshop Practice	150
Physical Exercises	150
	2,000

24. 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 the sessional examination held at the end of the first year, a student must obtain half the marks awardable at that examination. To pass the sessional examination at the end of the second year, he must obtain half the aggregate marks awardable at that and the previous sessional examination. To pass the final examination he must obtain half the total marks allotted to the whole course. 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. 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) statement of the trade followed by the candidate before enlistment;

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

(e) statement whether the candidate is married or unmarried;

(f) 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 outdoor 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 necessities in their possession when quitting their regiment;

(f) a certificate of the carriage, if any, furnished to them at a 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 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. 30 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.	Sessional rate.	Instalment rate (nine).
	RS.	RS.
Engineer class	140	18
Upper Subordinate class	70	9
Lower Subordinate class	40	5

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 Perambur is laid down in rule 16.

Scholarships, Stipends and Prizes.

(I) ENGINEER CLASS.

50. *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.

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

51. *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. 50 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.

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

53. 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.

54. 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.

55. *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.

56. *Walker scholarship.*—A scholarship of the value of about Rs. 14 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.

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

58. 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 medalist of the year.

59. 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.

60. 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.

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

SPECIAL PRIZES.

62. Three "Sir Madhava Rao" 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 Mahabrita 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.

STIPENDS IN WORKSHOPS.

63. 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.

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

65. 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.

66. 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.

67. 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.

68. 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.

Examinations.

69. All sessional and final examinations shall be conducted by the College staff. The decision of the Principal in regard to the qualifications of any student appearing for examination shall be final. The names of all students declared by the Principal to have passed a final examination shall be published in the *Port St. George Gazette*. A summary of the results of the examinations together with the observations of the Principal thereon shall be embodied in the annual report on the College submitted to the Director for transmission to Government.

Diplomas and Certificates.

70. *Engineer and Upper Subordinate Classes*.—On the completion of the course in the College, a provisional certificate signed by the Principal 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.

71. 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.

72. *Lower Subordinate Class*.—On the completion of the course, a certificate signed by the Principal 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.

Employments of Passed Students.

73. *Engineers*.—One appointment as Apprentice Engineer in the Public Works Department will be conferred annually by the Chief Engineer, in consultation with the Principal of the College, on the student, either Civil or Mechanical Engineer, judged most suitable on the results of the examinations and the promise shown by him and his general behaviour during the College course. 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 150, Volume I, Public Works Department Code, 9th edition, 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.

74. *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.

75. *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.

76. Students of the Engineer and Upper Subordinate classes who pass sufficiently high to merit the appointments referred to in rules 73 and 74 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.

77. The appointments referred to in rules 73 and 74 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, Sandūr, Banganapalle and Mysore.

78. 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.

79. 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 73 and 74 or for scholarships or prizes, or for the free practical course.

Registers and Accounts.

80. 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.

81. 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.

82. 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.

83. 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.

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

85. 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.

(True Extract.)

A. BUTTERWORTH,
Ag. Secretary to Government.

Editors' Table.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 191, EDUCATIONAL, DATED
29TH MARCH 1909.

[SUBJECT.—Alterations in the Rules of the College of Engineering.]

From the Director of Public Instruction, No. 4871, dated 9th March 1909.

Please see G.O., No. 49, Educational, dated 26th January 1909, and the notes therewith.

2. In that order the Government sanctioned the following changes in the working of the College of Engineering:—

(1) The Special Board of Examiners for the College was abolished and the examining work done by the Board was entrusted to the College staff to be done as part of their ordinary duties.

(2) The fees charged for the College examinations were abolished as separate fees and were ordered to be added to the tuition fees. It was observed that the tuition fees should be raised by an equal amount and the Director of Public Instruction was requested to report the scale which should be fixed.

(3) The plan of examinations of the College was ordered to be simplified or reorganized, so that the work done by a student during his College course might be allowed its full weight in deciding whether he should be given a College certificate or not.

The Director of Public Instruction was requested to submit a draft of the alterations in the rules of the College which were rendered necessary by the changes sanctioned.

Rules 48 and 50.

3. *Scale of fees.*—The following is the scale of tuition and examination fees now in force:—

Class.	Tuition fees.			Examination fees.
	For the full course.	For one session.	Per month.	
Engineer class	Rs. 360	Rs. 120	Rs. 12	Rs. 20
Upper Subordinate class	180	65	6	15
Lower	100	37½	4	10

4. The Director of Public Instruction now proposes the following scale:—

Class.	For one instalment (nine).	
	Rs.	Rs.
Engineer class	140	18
Upper Subordinate class	70	9
Lower	40	5

"Fees for the full course" have been omitted from the above scale, as it is stated that not a single student paid such fees during the last four years. The fees,

when not paid in one sum for the whole session, are made payable in nine instalments, as it is considered to be much more convenient to collect the fees during the working portion of the year than according to the present system of twelve monthly instalments regardless of the vacation.

5. The Director observes that in the proposed scale, the instalment rate is taken at about one-eighth the sessional rate, so that the students obtain the benefit of one instalment by paying the fees for the session in one sum. He considers that any further enhancement of the fees is unnecessary and observes that if it should be necessary to enhance the rates further, the question may be considered after the scale now proposed has been in force for some time.

6. The total amount of fees for the several classes, calculated for the full course at the existing sessional and monthly rates, including the examination fees, and those calculated at the proposed sessional and instalment rates, compare as follows:—

Class.	Total fees for the full course including examination fees calculated at the existing.		Total fees for the full course calculated at the proposed.	
	Sessional rate.	Monthly rate.	Sessional rate.	Monthly rate.
* This means when the fees are paid by the session or by the month? G. S. F[orms].				
Engineer class	Rs. 410	Rs. 452	Rs. 420	Rs. 486
Upper subordinate class	210	231	210	243
Lower subordinate class	122½	154	120	135

7. It is observed that while the total amount of fees for the Lower Subordinate class is less under the proposed than under the existing scale, there is a slight increase in that for the Engineer class in the case of the sessional rate and a considerable rise in the instalment rates of the Engineer and Upper Subordinate classes. The proposed scale seems, on the whole, to be carefully drawn up and it is for consideration whether it may be approved.

8. *Simplification of the plan of examinations.*—With regard to this question, the Director of Public Instruction submits for approval a scheme prepared by Mr. James, Principal of the College, showing the proposed redistribution of marks for the several subjects. In this scheme a larger proportion of the marks has been allotted for work done during the college course and the totals which have hitherto been rather unwieldy have been reduced. The simplification of the system of examinations was recommended by the Hon'ble Mr. Hammick—please see the last paragraph of his note dated 26th November 1908 on page 19 of K.W. G.O., No. 49, Educational, dated 26th January 1909. The net result of the proposals is a reduction in the total number of marks and the allotment of a larger proportion of marks for practical work than for the examination tests as shown below:—

Class.	Under existing system.			According to the present proposals.		
	Number of marks assigned by the Board of Examiners.	Number of marks assigned by College for practical work.	Total.	Number of marks assigned for examination tests.	Number of marks assigned for practical work.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Civil Engineer	5,200	3,600	8,700	1,800	3,200	5,000
Mechanical Engineer	5,200	3,800	9,000	1,800	3,200	5,000
Upper Subordinate	2,200	1,800	4,000	1,200	1,700	2,900
Lower do.	1,750	2,250	4,000	750	1,250	2,000

It is for consideration whether the revised scheme of examination prepared by Mr. James, may be approved.

9. *Alterations in the rules.*—The alterations proposed in the rules are simple and do not appear to call for detailed remarks. The alterations are consequential on the

abolition of the separate Board of Examiners and of the examination fees and on the alteration in the scheme of marks and are as follows:—

(1) In the following rules, the alterations made consist mainly in the omission of passages referring to the Board of Examiners:—

Rule 11.—Third sentence omitted.

Rule 13.—The words “by the Board of Examiners” at the end of the first sentence omitted.

Rule 17.—Last sentence omitted.

Rule 19.—First sentence omitted.

Rule 22.—Last sentence omitted.

Rule 24.—First sentence omitted.

Rule 71.—The words “and the President of the Board of Examiners” omitted.

Rule 73.—The words “and the President of the Board of Examiners” omitted.

(2) Rule 48 will have to be modified with reference to the decision as regards the scale of fees—paragraph 7 *supra*. Rule 50 which relates to the rates of examination fees has been omitted, as these fees have been abolished.

(3) The marks allotted for the several subjects in rules 12, 18 and 23 have also been reduced so as to make the totals less unwieldy—*vide* paragraph 8 *supra*.

(4) In rules 20 and 25 the separate minima prescribed in some of the subjects have been omitted. With regard to this the Principal observes “These separate minima are not necessary. The attainment of required proficiency in surveying “is safeguarded by last sentence in paragraph (rule) 19”.

(5) Rule 70 relating to the Board of Examiners has been revised. The existing rule runs—

BOARD OF EXAMINERS.

70. “All sessional and final examinations shall be conducted by 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 professorial 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.”

The revised rule is as follows:—

“All sessional and final examinations shall be conducted by the college staff. “The decision of the Principal in regard to the qualifications of any student appearing “for examination shall be final. The names of all students declared by the “Principal to have passed a final examination shall be published in the *Fort St. “George Gazette*. A summary of the results of the examinations together with the “observations of the Principal thereon shall be embodied in the annual report on “the College submitted to the Director for transmission to Government.”

With regard to this the Director of Public Instruction observes that under existing rule 70 “the Board of Examiners are required, after the completion of the “annual examinations, to submit a report to Government through the Director of “Public Instruction. As the examinations have to be conducted in future by the “College staff, the submission of a special report to Government on the examinations

"seems to be unnecessary in view of the fact that the Principal's report on the
 G. S. F[ORBES]. "working of the college is annually sub-
 "mitted to Government with the Director's
 "remarks. It would suffice therefore to embody in the annual report a paragraph
 "dealing with the results of the annual examinations, and the rule has accordingly
 "been altered."

A. BUTTERWORTH.
 Professional Examinations?
 G. S. F[ORBES].

10. The Director of Public Instruction
 has not altered the heading of rule 70.
 It is at present headed "Board of Exa-
 miners." This may, it is submitted, be
 changed into "Examinations".

11. The rules have now to be renumbered in consequence of the omission of
 rule 50 relating to examination fees. It is submitted that as several changes have
 been made in the rules since they were first approved in G.O., No. 159, Educational,
 dated 20th March 1907, the opportunity
 A. BUTTERWORTH. may be taken to issue the whole of the
 rules, as revised up to date, as an appendix to the Government Order in this case for
 facility of reference.

T. K.—19-3-09.

K. RANGASWAMI AIYANGAR—20-3-09.

The proposals of the Director of Public Instruction may, I submit, be approved.
 As regards the fees it seems best to accept the proposed scale and call for a report,
 say, in a year as to how it works. The allocation of the marks seems a matter
 mainly for the Principal.

2. As suggested by the office the complete rules may, as revised, be appended

A. BUTTERWORTH. to the order which can issue in manu-
 script at first to save delay.

C. A. SOUTER—20-3-09.

The proposals may, I submit, be accepted *en bloc*.

A. BUTTERWORTH—21-3-09.

Yes.

G. S. F[ORBES]—23-3-09.

Yes. I accept.

M. H[AMMICK]—25-3-09.

Draft.

A. BUTTERWORTH—25-3-09.

Draft submitted for approval.

2. It is for consideration whether the heading of rule 70, renumbered as 69,
 should be merely "Examinations" or "Professional Examinations"—please see
 Honourable Member's query above.

T.K.—25-3-09.

K. RANGASWAMI AIYANGAR—26-3-09.

In rule 69 as revised, the heading may be simply "Examinations". The rule
 itself says what they are.

Yes. Issue.

C. A. SOUTER—26-3-09.

A. BUTTERWORTH—27-3-09.

[G.O., No. 191, Educational, dated 29th March 1909.]

Surely 191 should be laid on Editors' Table.

A. BUTTERWORTH—22-4-09.

The slip on which it was decided that G.O., No. 191, Educational, dated 29th
 March 1909, need not be placed on Editors' Table is not in Ooty Office. This Govern-
 ment Order sanctions only the alterations in the rules of the College of Engineering

rendered necessary by G.O., No. 49, Educational, dated 26th January 1909, which
 was laid on Editors' Table, and the whole of the rules as altered have also been
 published in the Gazette.

In these circumstances it is for consideration whether G.O., No. 191, Educational,
 dated 29th March 1909, may be placed on Editors' Table.

T.K.—22-4-09.

It is not really necessary to put the Government Order on Editors' Table. Its
 substance has all been published already.

C. A. SOUTER—23-4-09.

Very well.

A. BUTTERWORTH—24-4-09.

15/3/29
No. 3 Part 2-B. 29. March 1909.

The Governor in Council is pleased to sanction, in supersession of all rules previously prescribed, the following revised rule for the College of Engineering, Madras.

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

~~Corrected up to 19th February 1909~~

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.

(1) ENGINEER CLASS (CIVIL AND MECHANICAL).

11. The courses of instruction shall extend over four years, of which three shall be spent in the College and the fourth chiefly on works. The courses 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. *8* Marks for practical work shall be assigned by the College staff and these marks shall count towards the final total. The course of study shall be the same for Civil and Mechanical Engineer students during the first year. Civil Engineer students shall spend the final year in a Public Works Division and Mechanical Engineer students in an Engineering workshop.

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

CIVIL ENGINEER CLASS.

Branch I.

(a) Mathematics—									
Pure—Algebra	..	..	..	..	..	..	..	250	<i>8</i>
Geometry	..	..	..	..	..	..	..	250	
Mensuration	..	..	..	..	..	..	..	250	
Trigonometry	..	..	..	..	..	..	..	250	
Calculus	..	..	..	..	..	..	..	1250	
Applied—Kinematics	..	..	..	..	..	..	..	750	
Kinetics	..	..	..	..	..	..	..	750	
Hydrostatics	..	..	..	..	..	..	..	750	
Total	..	..	..	..	..	..	..	900	450

(b) Science—									
Chemistry	..	..	..	..	..	..	..	300 (100)	150
Physics	..	..	..	..	..	..	..	300 (100)	150
Geology	..	..	..	..	..	..	..	300 (100)	150
Total	..	..	..	..	..	..	..	900 (300)	450

Branch II.

Engineering—									
Geometrical Drawing	..	..	..	..	..	..	..	300 (100)	150
Freehand and Model Drawing	..	..	..	..	..	..	..	100 (100)	<i>8</i>
Building Drawing (1st Year)	..	..	..	..	..	..	..	200 (100)	100
Machine Drawing (do.)	..	..	..	..	..	..	..	200 (100)	100
Surveying (do.)	..	..	..	..	..	..	..	300 (200)	150
Applied Mechanics	..	..	..	..	..	..	..	1,000 (200)	400
Construction	..	..	..	..	..	..	..	1,000 (200)	400
Hydraulic Engineering	..	..	..	..	..	..	..	1,000 (200)	400
Drawing	..	..	..	..	..	..	..	1,000 (500)	500
Surveying	..	..	..	..	..	..	..	700 (400)	350
Engineering Laboratory	..	..	..	..	..	..	..	400 (400)	600
Workshop	..	..	..	..	..	..	..	200 (200)	300
Total	..	..	..	..	..	..	..	4,400 (2,700)	3,550

Physical Exercises 500 (500) 250

Grand Total .. 8,700 (3,500) 5,000

MECHANICAL ENGINEER CLASS.

Branch I.

(a) Mathematics—									
Pure—Algebra	..	..	..	..	..	..	..	250	<i>8</i>
Geometry	..	..	..	..	..	..	..	250	
Mensuration	..	..	..	..	..	..	..	250	
Trigonometry	..	..	..	..	..	..	..	250	
Calculus	..	..	..	..	..	..	..	1250	
Applied—Kinematics	..	..	..	..	..	..	..	750	
Kinetics	..	..	..	..	..	..	..	750	
Hydrostatics	..	..	..	..	..	..	..	750	
Total	..	..	..	..	..	..	..	900	450

(b) Science—

Chemistry	..	..	..	..	..	..	..	300 (100)	150
Physics	..	..	..	..	..	..	..	300 (100)	150
Total	..	..	..	..	..	..	..	600 (200)	300

Branch II.

Engineering—									
Geometrical Drawing	..	..	..	..	..	..	..	300 (100)	150
Free-hand and Model Drawing	..	..	..	..	..	..	..	100 (100)	100
Building Drawing (1st year)	..	..	..	..	..	..	..	200 (100)	100
Machine Drawing (do.)	..	..	..	..	..	..	..	200 (100)	100
Surveying (1st year)	..	..	..	..	..	..	..	300 (200)	150
Applied Mechanics	..	..	..	..	..	..	..	1,000 (200)	400
Mechanical Engineering	..	..	..	..	..	..	..	1,500 (300)	600
Drawing	..	..	..	..	..	..	..	1,200 (800)	500
Engineering Laboratory	..	..	..	..	..	..	..	400 (200)	600
Electrical Engineering	..	..	..	..	..	..	..	900 (200)	400
Electrical Laboratory	..	..	..	..	..	..	..	500 (400)	300
Workshop	..	..	..	..	..	..	..	400 (400)	300
Total	..	..	..	..	..	..	..	7,000 (3,100)	4,000

Physical Exercises .. 500 (500) 250

Grand Total .. 9,000 (3,800) 5,000

Note.—The total marks for each subject are shown unbracketed and those to be awarded by the College are given in brackets.

13. 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 and laboratory work. *8*

14. In order to pass the sessional examination at the end of the first year, a student must obtain half the marks awardable at that examination. To pass the sessional examination at the end of the second year, he must obtain half the aggregate marks awardable at that and the previous sessional examination. To pass the final examination he must obtain half the total marks allotted to the whole course, and, in addition, 33 per cent. of the marks assigned to each of the three groups. *branch*

(a) Mathematics and Science, marks 1,000.

(b) Engineering, sub-heads 1 to 7, marks 2,700.

(c) Engineering, sub-head 8, marks 1,000.

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. Civil Engineer students 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. Mechanical Engineer students will proceed to the Public Works Workshops. One Mechanical Engineer student will be permitted each year to join the Madras and Southern Mahratta Railway Locomotive shops at Perambur, 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 Perambur 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. *8*

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

BRANCH I.—MATHEMATICS.

1. Arithmetic (100), 2. Algebra (100), 3. Geometry (100),
4. Mensuration (100), 5. Plane Trigonometry (100) ..

Marks.

750

BRANCH II.—ENGINEERING.

1. Drawing—Freehand and model drawing (100), geometrical drawing (200), machine drawing (150), building drawing and estimating (50) ..
2. Applied mechanics ..
3. Construction ..
4. Hydraulic engineering ..
5. Mechanical engineering ..
6. Surveying—Surveying with chain, compass and plane table (250), levelling (250), theodolite surveying (200) ..

1,100
900
300
500
300
400
300
200

Workshop Practice ..
Physical Exercises ..

750 500
8,650 2,500
300 200
300 200
5,000 3,400

19. Of the total marks, 3,200 shall be awarded by the Board of Examiners for Examination work, and 1,900 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 subject 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 the sessional examination held at the end of the first year, a student must obtain half the marks awardable at that examination. To pass the sessional examination at the end of the second year, he must obtain half the aggregate marks awardable at that and the previous sessional examination. To pass the final examination he must obtain half the total marks allotted to the whole course, and, in addition, 33 per cent. of the marks assigned to each of the three groups—

- (a) Mathematics, marks 750;
(b) Engineering, sub-heads 1 to 3, marks 2,900,
(c) Engineering, sub-head 6, marks 750.

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:—

- (1) Drawing—Freehand and model drawing (200), Geometrical drawing (300), Machine drawing (250), Building drawing and estimating (500) ..
(2) Applied Mechanics ..
(3) Construction ..
(4) Surveying—Surveying with chain, compass and plane table (400), levelling (400), theodolite surveying (400) ..
Workshop Practice ..
Physical Exercises ..

Marks.

1,950 700
400 150
550 250
1,200 600
250 150
250 150
4,000

24. Of the total marks, 1,750 shall be awarded by the Board of Examiners for examination work, and 2,950 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 the sessional examination held at the end of the first year, a student must obtain half the marks awardable at that examination. To pass the sessional examination at the end of the second year, he must obtain half the aggregate marks awardable at that and the previous sessional examination. To pass the final examination he must obtain half the total marks allotted to the whole course, and, in addition, 33 per cent. in each of the two groups—

- (a) Subjects 1 to 3, marks 2,300,
(b) Subject 4, marks 1,200.

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. 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) statement of the trade followed by the candidate before enlistment;

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

(e) statement whether the candidate is married or unmarried;

(f) 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 outdoor 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 necessities 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.	Postulant's scholarship rate (where).
	RS.	RS.	RS.
Engineer class	260	140 100	15 18
Upper Subordinate class	180	70 05	9
Lower Subordinate class	100	40 05	5

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 Perambur is laid down in rule 16.

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

Engineer class	RS. 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.

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

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, 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. 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 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 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. 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 medalist of the year.

59. 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 Mahatma Brahma 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 *Port St. George Gazette*, dated 17th June 1890.

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 Examinations.

70. All sessional and final examinations shall be conducted by 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 *Port 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

A summary of the results of the examinations together with the observations of the Principal thereon shall be embodied in the Annual report on the College submitted to the Director for transmission to Govt.

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.

Employments of Passed Students.

74. Engineers.—One appointment as Apprentice Engineer in the Public Works Department will be conferred annually by the Chief Engineer, in consultation with the Principal of the College, on the student, either Civil or Mechanical Engineer, judged most suitable on the results of the examinations and the promise shown by him and his general behaviour during the College course. 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 150, Volume I, Public Works Department Code, 9th edition, 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 to 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.

AD
26.3.09

Papers to be read in Proceedings:—

Again G.O., No. 49 Ed, dated 26--1-- 190 9 1
 Again G.O., No. , dated 190
 Current No. 515 From the D.P.I., No. 4971, dated 9th March 190 9,
 " " " " " " *with Enclosure*
 " " " " " " " "

ORDER. No. 191, dated 29-3-1909.
p. 5-

The Government accept the proposals of the Director of Public Instruction ~~in~~ regarding the revised rates of fees and the revised scheme of examination ^{including the} ~~even~~ redistribution of marks ^{in the College of Engineering} ~~proposed by the Director~~ of the College of Engineering. The alterations in the rules of the college proposed by the Director of Public Instruction are also approved.

2. The following notification
will be published in the Fort St.
George Gazette:-

Notification.

The Governor in Council is pleased to sanction, in supersession of all rules previously prescribed, the following

18 1/4 P.

following revised rules for the
College of Engineering, Madras:-

7/8
26.3.09

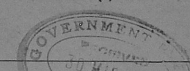
(rules attached)

80
26.3.09

all
27/3
attached

To

The D.P.I.
" P.W.D.
" Gazette.



g) If a paper is marked to be printed, the Superintendent of the section concerned should sign the Press slip. The Superintendent should exercise a careful discretion in the matter.

Current No....., dated.....190

G.O., No. 191, dated 29-3-1909

(b)

Number of MS. pages sent { Correspondence including order or orders
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 Notes.....

Docket. College of Engineering accepting the proposal of
D.P. 2. to the Board of Trustees of the revised Scheme of
examination in the college.

Number ^(c) of copies required when struck off (not including copies for volumes and editors' table which are retained in the Press).

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For filing with original	...	...	...	...	31	3

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(c) Signature copies of letters to the Secretary of State or to the Government of India should be printed on hand-made paper.

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