

Government of Madras.

EDUCATIONAL DEPARTMENT.

Recd.

Regd.

} 1913.

Enclosures

Spare copies

G.O. No. 194, 1st March 1913.

College of Engineering, Madras.

Approving the alterations proposed by the Director of Public Instruction in rules 6, 31, 39 and 40 of the rules relating to the constitution and working of the — and directing the publication in the *Fort St. George Gazette* of the rules as revised up to date.

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GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

READ—the following paper :—

Letter—from the Hon'ble Sir ALFRED GIBBS BOURNE, D.Sc., F.R.S., K.C.I.E.,
Director of Public Instruction.
To—the Secretary to Government, Educational Department.
Dated—Madras, the 14th February 1913.
No.—Ref. on Cur. 8086 of 1912.

With reference to paragraph 2 of G.O. No. 71, Educational, dated 29th January 1913, I have the honour to submit herewith for favour of approval and publication in the Gazette a draft of the alterations in the rules of the College of Engineering called for thereon.

ENCLOSURE.

Draft alterations.

The following rules shall be substituted for the existing rules 6, 31, 39 and 40 relating to the constitution and working of the College of Engineering, Madras :—

College Year, Vacations and Holidays.

6. The college year shall consist of—

- a first term extending from about the 1st July to about the 30th September. The last ten days of the term shall be devoted to inspection tours;
- a second term extending from about the 1st October to about the 14th April. A survey camp lasting about a month shall be formed immediately after the Christmas holidays.
- a vacation extending from about the 15th April to about the 30th June as may be notified by Government.

31. Admission shall be once a year, on the first working day of the college session for all classes.

35. 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 20th May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

39. The fee for registration for admission shall be Rs. 3, which will under no circumstances be refunded. Applications will be received by the Principal up to the 20th May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(iii) *All Classes.*

40. The selected candidates of all classes shall join the college on the first working day of the college session and shall each on that day deposit with the Principal—

- A sum of money, to be drawn against for instruments and books, which shall be for the engineer class Rs. 120 and for the probationary subordinate class Rs. 100;
- a health certificate from a gazetted Government medical officer to the effect that the candidate is fit for the out-door work of the Public Works Department, and that he has had small-pox or has been vaccinated;
- his University diploma or certificate;
- testimonials of good character covering the last two years;
- satisfactory evidence of age;
- a leaving certificate from his last college or school.

The following alterations shall be made in rules 41 and 42 :—

41. For "last day of May" read "20th May."

42. For "15th July" read "first working day of the college session."

Order—No. 194, Educational, dated 1st March 1913.

The Government approve the alterations in the rules relating to the constitution and working of the College of Engineering proposed by the Director of Public Instruction in his letter read above. The rules of the college as revised up to date will be published in the *Fort St. George Gazette*.

NOTIFICATION.

The rules relating to the constitution and working of the College of Engineering, Madras, revised up to date are republished :—

OBJECT.

- 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.
- 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 and Southern Mahratta 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 first term extending from about the 1st July to about the 30th September. The last ten days of the term shall be devoted to inspection tours.
- A second term extending from about the 1st October to about the 14th April. A survey camp lasting about a month shall be formed immediately after the Christmas holidays.
- A vacation extending from about the 15th April to about the 30th June 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 :—

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

(iv) *Probationary Subordinate class*—for training previous to joining the upper or lower subordinate class.

COURSES OF INSTRUCTION.

(i) *Engineer Class (Civil and Mechanical).*

11. The courses of instruction shall extend over five years, of which four shall be spent in the college and the fifth 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 two years. 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.		MECHANICAL ENGINEER CLASS.	
BRANCH I.		BRANCH I.	
(a) <i>Mathematics.</i>	Marks.	(a) <i>Mathematics.</i>	Marks.
<i>Pure—</i>		<i>Pure—</i>	
Algebra	50	Algebra	50
Geometry	50	Geometry	50
Mensuration	50	Mensuration	50
Trigonometry	50	Trigonometry	50
Calculus	200	Calculus	200
<i>Applied—</i>		<i>Applied—</i>	
Kinematics	100	Kinematics	100
Kinetics	100	Kinetics	100
Hydrostatics	100	Hydrostatics	100
Total	700	Total	700
(b) <i>Science.</i>		(b) <i>Science.</i>	
Chemistry	200	Chemistry	200
Physics	200	Physics	200
Geology	200		
Total	600	Total	400
BRANCH II.		BRANCH II.	
<i>Engineering.</i>		<i>Engineering.</i>	
Elementary applied mechanics (1st and 2nd years)	100	Elementary applied mechanics	100
Geometrical drawing	300	Geometrical drawing	300
Freehand and model drawing	100	Freehand and model drawing	100
Building drawing (1st and 2nd years)	150	Building drawing (1st and 2nd years)	150
Machine drawing (do.)	150	Machine drawing (do.)	150
Surveying (do.)	200	Surveying (do.)	200
Applied mechanics	400	Applied mechanics	400
Construction	400	Mechanical engineering	600
Hydraulic engineering	400	Drawing	800
Drawing	800	Engineering laboratory	600
Surveying	500	Electrical engineering	400
Engineering laboratory	600	Electrical laboratory	300
Workshop	300	Workshop	500
Total	4,400	Total	4,600
<i>Physical Exercises</i>	300	<i>Physical Exercises</i>	300
Grand Total	6,000	Grand Total	6,000

13. Sessional examinations shall be held at the end of the second and third years, 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 and laboratory work.

14. In order to pass the sessional examination at the end of the second year, a student must obtain half the marks awardable at that examination. To pass the sessional examination at the end of the third 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 pass the examination at the end of the second year must either leave the college or if considered eligible may be allowed to join the upper subordinate class. A student who fails to obtain qualifying marks at the third year or at the 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 five 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 after promotion from the probationary subordinate class shall extend over three years, of which two shall be spent in the college and the third 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) Algebra (100), (2) Geometry (100), (3) Plane trigonometry (100)			300
BRANCH II.—ENGINEERING.			
1. Drawing.—Machine drawing (100), building drawing and estimating (300)			400
2. Applied mechanics			200
3. Construction			200
4. Hydraulic engineering			250
5. Mechanical engineering			150
6. Surveying.—Levelling (100), theodolite surveying (100)			200
<i>Workshop Practice</i>			1,400
<i>Physical Exercises</i>			200
			100
			2,000

19. A sessional examination shall be held at the end of the first year, at which portions of the above subjects shall be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the college in practical surveying.

20. In order to pass 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 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 the

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 three years in the class. 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 together with that of the probationary subordinate class 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 for the third year and the marks assigned to each shall be as follows:—

	Marks.	Marks.
1. Drawing.—Machine drawing (100), building drawing and estimating (300)	400	
2. Applied mechanics	100	
3. Construction	100	
4. Surveying.—Levelling (100), theodolite surveying (100) ..	200	
		800
Workshop Practice	100	
Physical Exercises	100	
		1,000

24. All students must satisfy the Principal of the college in practical surveying.

25. In order to pass the final examination a student must obtain half the total marks allotted to the whole course. A student who fails to obtain qualifying marks at the final examination shall not pass out, but must either leave the college or join the next year's division. 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.

(iv) *Probationary Subordinate Class.*

26. The course of instruction shall extend over two years and be preliminary to the upper and lower subordinate courses.

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

BRANCH I.—MATHEMATICS.		BRANCH II.—ENGINEERING—cont.	
	Marks.		Marks.
Arithmetic	100	Surveying—Chain, compass, plane table and levelling	200
Mensuration	100		1,000
Elements of plane trigonometry ..	100		
	300		
BRANCH II.—ENGINEERING.		Workshop Practice	100
Drawing—Free hand and model ..	100	Physical Exercises	100
Geometrical	300		200
Machine	100		
Building	100	Total ..	1,500
Elementary applied mechanics ..	100		
Construction	100		

27. An examination shall be held at the end of the second year on the results of which a selected number, not exceeding thirty, of probationary subordinate students shall be promoted to the upper subordinate class for higher training. Probationary subordinate students not so selected, but who pass the examination, shall constitute the lower subordinate class for the following year.

28. In order to pass the examination a student must obtain half the total marks allotted to the course. A student who fails to obtain the qualifying marks must either leave the college or rejoin the class for another year. Such students shall be ineligible for scholarships or prizes. No student shall be permitted to remain more than three years in the class.

STRENGTH OF CLASSES.

29. The number of students to be admitted annually shall ordinarily be limited to 20 in the engineer class, and 90 in the probationary subordinate class.

ADMISSIONS AND WITHDRAWALS.

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

31. Admission shall be once a year, on the first working day of the college session for all classes.

32. 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.

33. 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.*

34. Candidates must have passed the Intermediate examination of the Madras University with group I as the optional branch or an examination accepted by Government as equivalent thereto, and must be under 20 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 Intermediate examination with group I as the optional branch 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 by the Principal, 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. 5, which will under no circumstances be refunded. Applications will be received by the Principal up to the 20th May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(ii) *Probationary Subordinate Class.*

37. Candidates must be either holders of completed secondary school leaving certificates considered by the Principal of the college as satisfactory or must have passed the Matriculation examination of the Madras University or an examination accepted by Government as equivalent thereto. Candidates must be under 20 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed 90. If the number of applicants exceeds 90 admission shall be regulated by further selection by the principal. Persons who present themselves for the public examination under the scheme for the award of secondary school leaving certificates or 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 being awarded completed certificates in the one case and on their passing the examination in the other.

38. Candidates otherwise qualified, but whose age exceeds the maximum above laid down, may be admitted by the Principal, 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 refunded. Applications will be received by the Principal up to the 20th May. The names of the candidates to be admitted shall be published in the *Fort St. George Gazette*.

(iii) *All Classes.*

40. The selected candidates of all classes shall join the college on the first working day of the college session, 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, and for the probationary subordinate class Rs. 100;

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

(c) his University diploma or certificate;

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

(e) satisfactory evidence of age;

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

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 shall be submitted in I.A.F.U. 1740 and will be received by the Principal up to the 20th 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) certificate of good eye-sight, sound health and unimpaired constitution, signed by a medical officer in the following form:—

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

Name

Designation.

42. The selected candidates shall join the college on the first working day of the college session and bring with them—

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

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 join the probationary subordinate class. Probationers who fail to pass the examination held at the end of the second year 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

* They shall, when posted to hill stations, or employed in hill tracts and other special localities for which local allowances have been prescribed for the members of the Public Works Department in appendix 19 to the Public Works Department Code, Volume III, or have been specially sanctioned by Government, also draw a local allowance of Rs. 10 *per mensem*.

the usual regimental allowances for wife and children. Any apprentice who is unfavourably reported on shall revert to his corps. Travelling allowances to military apprentices joining or on works will be drawn at the rates sanctioned for officers of the third class under Civil Service Regulations.

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	
Probationary 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 four class-divisions. At the commencement of the first year of study these scholarships will be granted by the Principal at his discretion; at the commencement of the second year they will be awarded to the students who obtain the highest number of marks during the first year, and at the beginning of the third and fourth years to the students who stand highest at the sessional examinations. A third scholarship of the monthly value of Rs. 15 will be awarded annually in each class-division by the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Mussulman, or Indian Christian, or a European or Eurasian, in the order named. The above scholarships are tenable in each case for one year. 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.

Proviso.—In the award of scholarships under this rule students who hold one of the scholarships mentioned in rule 51 shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

51. *Other scholarships*.—The Government of Mysore awards engineering scholarships annually of Rs. 80 *per mensem* tenable for three years. Scholarships are also awarded occasionally by the Nizam's Government, the Governments of Ceylon and Cochin and the Commissioner of Coorg. The University scholarships founded by the Maharaja of Travancore and the Rajah of Cochin, of the value of about Rs. 80 *per mensem*, and the Bowen Memorial (Mysore) scholarship, 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 or employed in hill tracts and other special localities for which local allowances have been prescribed for the members of the Public Works Department in Appendix 19 to the Public Works Department Code, Volume III, or have been specially sanctioned by Government. 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 two class-divisions. 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 two class-divisions by 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. The above scholarships are tenable in each case for one year. One scholarship of Rs. 100, *per mensem*, tenable for two 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.

Proviso.—In the award of scholarships under this rule the student who holds one of the scholarships mentioned in rule 56 shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

56. *Other scholarships*.—A Walker scholarship of the value of about Rs. 14 *per mensem* is tenable for two 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, and a Mangalore Jubilee scholarship of the value of about Rs. 13 *per mensem* may be awarded to a student from South Canara.

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 medallist 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 or employed in hill tracts and other special localities for which local allowances have been prescribed for the members of the Public Works Department in Appendix 19 to the Public Works Department Code, Volume III, or have been specially sanctioned by Government. 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 to the two students in the class who obtain the highest marks at the probationary sessional examinations. A third scholarship of the monthly value of Rs. 8 will be awarded by 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. The above scholarships are tenable in each case for one year. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

Proviso.—In the award of scholarships under this rule the students who hold the scholarships mentioned in rule 60-A shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

60-A. *Other Scholarships*.—Mangalore Jubilee scholarships of the value of about Rs. 13 *per mensem* may be awarded under certain conditions to students who are natives of South Canara.

61. A bronze medal will be awarded to the student who passes first at the final examination. Prizes will be given to students who display proficiency in special subjects.

(iv) Probationary Subordinate Class.

62. Four scholarships of the monthly value of Rs. 8 each will be awarded annually in each of the class-divisions. At the commencement of the first year of study the scholarships will be granted by the Principal at his discretion. At the beginning of the second year they will be awarded to the students who obtain the highest number of marks during the first year. A fifth scholarship of the monthly value of Rs. 8 will be awarded annually in each of the two class-divisions by 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. The above scholarships are tenable in each case for one year. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

Proviso.—In the award of scholarships under this rule the students who hold the scholarships mentioned in rule 62-A shall be treated as disqualified and the scholarships will be awarded to the student who stands next in order of merit.

62-A. *Other scholarships*.—Mangalore Jubilee scholarships of the value of about Rs. 13 *per mensem* may be awarded under certain conditions to students who are natives of South Canara.

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 Benhim 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.

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.

EXAMINATIONS.

70. All sessional and final examinations shall be conducted by the college staff. Unless specially exempted by the Principal, no student will be allowed to appear for any college examination if he has been absent without leave from a prescribed survey camp or has failed to attend the college for at least four-fifths of the working days in the preceding college year. 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.

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 shall be issued showing that the candidate has passed the final examination. On the satisfactory completion of the practical course a diploma, signed by the Principal and the Director of Public Instruction, shall be issued, setting forth the qualifications of the student for employment as a civil engineer, a mechanical engineer, or as an upper subordinate engineer.

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

73. *Lower Subordinate class.*—On the completion of the course, a certificate signed by the Principal shall be issued, stating that the student has passed the final examination and is qualified for employment as a lower subordinate engineer or as a surveyor or a draftsman.

EMPLOYMENT OF PASSED STUDENTS.

74. *Engineers.*—One appointment as apprentice engineer in the Public Works Department 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, 6th 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 for civilian students referred to in rules 74 and 75 are reserved for statutory natives of India, provided that natives of pure Asiatic descent shall be admitted only if their parents or guardians are domiciled in the Madras Presidency or the States of Travancore, Cochin, Pudukkottai, Sandur, Banganapalle and Mysore.

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

CASUAL STUDENTS.

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

REGISTERS AND ACCOUNTS.

81. The following registers shall be kept:—

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

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

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.

(True Extract.)

L. DAVIDSON,
Ag. Secretary to Government.

To the Director of Public Instruction.
" Public Works Department.
" Superintendent, Government Press (for publication in the Gazette).
Editors' Table.

Forwarded to the

(By Order.)

Registrar.

C. No. 574 From the S.P.D. No. 8086/12 dated 14.2.1913

SUBJECT. Revision of the rules of the College of Engineering

- The Engineering College rules, as a whole, were approved
(O) and published in G.O. 451 Ed. 8th July 1911. Subsequently individual rules were amended now and then - please see
(G), (H), (I) G.O. 603 Ed. 30. 8-11, 857 Ed. 5-12-11, 507 Ed. 11-6-12
(J) + (L) 556 Ed. 24-6-12 and 996 Ed. 12-11-12. With reference to
(M) G.O. 71 Ed. 29th January 1913 the S.P.D. submits the draft of certain other amendments to the rules. These may, if approved, be submitted for approval and the rules, as revised up to date, may be published in the Fort St. George Gazette.

2. A draft order is submitted for approval.

P.D. CA
15.2.13 27.2.13

Sent to Rev. 1/3/13

Please (G.O. 1914 Ed. 17 3-13) carefully to scrutinize the amendments in proof before issue.

Ld. and
28.2.13

Proof Submitted to Under Secretary, for approval, with reference to the Secretary's orders above.

P.D. CA
29.3.13 3.4.13

I have passed the proof.

but have noted some suggestions, which please examine.

4413

The following are the suggestions of the Under Secretary:

(i) Rule 16 - Should not the word "student" in the penultimate sentence be "students" in plural?

(ii) Rule 51 - strictly speaking the expression "maharajas of Travancore & Cochin" in the penultimate sentence of the rule should be "maharajah of Travancore and the Rajah of Cochin". Please see ^{the} Civil list page 434.

(iii) Rule 75 - penultimate sentence in brackets. It seems to the Under Secretary that the sentence within ^{square} brackets may be omitted. It does not apparently fit in with rule 78.

2. The first is only a printing mistake and "students" in plural is the correct word - please see the same rule on

page 17 of G.O. 191 S.D. 29. 3. 09. Rule 51 was first inserted in the rules approved in G.O. 159 S.D. 20. 3. 07 with reference to the rules on pages 110 & 111 of the College of Engineering Calicut for 1906. Apparently the incorrectness of the term "Maharajah of Cochin" was not noticed then. The rules may be altered as suggested by the Under Secretary.

3. An effort was made to trace the history of rule 75 so as to find out when and under what circumstances the sentence in brackets was first put

[Handwritten signature/initials]

page 31 of notes to that G.O.

put up.

iii. It has not been possible to trace its history completely. ~~It appeared, the Rules Committee was not aware of its origin, and the question of its retention or deletion may be decided only by the Committee separately.~~

~~and~~ The Rule⁷⁵ refers only to the guaranteed appointments to civilian students.

Perhaps by an amplification of the first two words of this rule into "the guaranteed appointments for civilian students," the ~~in~~ apparent inconsistency between this rule & Rule 75 may be removed.

In that case the portion in brackets in the ~~former~~ latter rule may be retained. As this section of the rules deals with all appointments open to students, the case of military students which is already dealt with in Rule 75 is mentioned again in Rule 75.

Ch
22-603

Prof finally
passed by 84
24/6

I am sorry that the file
which was on receipt from
the Prof. clerk by mistake
left along with the papers
which have been put in
and kept only for reference
though in a book which
I read, I was told that
it was on the receipt
number from the Prof.

Ch
24/6

Print

8/2/13 P.R. 32
370
More call to be put up to the Sub-Committee for approval
CN. 504.

No. 194 of 1. 3. 13.

Order
P.S.

2. I hereby approve the alterations in the rules relating to the constitution & working of the College of Engineering proposed by the S.P.C. in his letter read above as revised up to date.

The revised rules of the College of Engineering submitted with the Director's letter read above are approved and the following notification will be published in the Fort St. George Gazette:—

NOTIFICATION.

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

The Rules relating to the constitution and working of the College of Engineering, Madras revised up to date are republished:—

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 and Southern Mahratta 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.

CLASSES

COURSES OF INSTRUCTION.

(i) *Engineer Class (Civil and Mechanical).*

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

CIVIL ENGINEER CLASS.

BRANCH I.

(a) *Mathematics.*

Marks.

<i>Pure—</i>			
Algebra ..	..	..	50
Geometry ..	..	..	50
Mensuration ..	..	..	50
Trigonometry ..	..	..	50
Calculus ..	..	..	200
<i>Applied—</i>			
Kinematics ..	..	..	100
Kinetics ..	..	..	100
Hydrostatics ..	..	..	100
		Total ..	700

(b) *Science.*

Marks.

Chemistry	..	..	..	..	..	200
Physics	..	..	..	..	..	200
Geology	..	..	..	..	..	200
				Total	..	600

BRANCH II.

Engineering

Elementary applied mechanics (1st and 2nd years)	100
Geometrical drawing	300
Freehand and model drawing	100
Building drawing (1st and 2nd years) ..	150
Machine drawing (do.) ..	150
Surveying (do.) ..	200
Applied mechanics	400
Construction	400
Hydraulic engineering	400

Physical Exercises

Grand Total	..	6,000
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BRANCH I.

(a) *Mathematics.*

Marks. |

<i>Pure—</i>	Marks.	<i>Applied—</i>	Marks.
Algebra	50	Kinematics	100
Geometry	50	Kinetics	100
Trigonometry	50	Hydrostatics	100
Calculus	200	Total	700

(b) *Science.*

Mark.

Chemistry	..	..	..	..	..	..	..	..	..	..	..	200
Physics	..	..	..	..	..	..	..	..	..	..	..	200
										Total	..	<u>400</u>

BRANCH II.

Engineering.

Marks.

Mark

Elementary applied mechanics	100	Electrical engineering	400
Geometrical drawing	300	Electrical laboratory	300
Freehand and model drawing	100	Workshop	500
Building drawing (1st and 2nd years) ..	150		
Machine drawing { do. }	200	Total	4,600
Surveying { do. }	200		
Applied mechanics	400	<i>Physical Exercises</i>	300
Mechanical engineering	800		
Drawing	800	Grand Total	6,000
Furnishing laboratory	600		

13. Sessional examinations shall be held at the end of the second and third years, 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 and laboratory work.

14. In order to pass the sessional examination at the end of the second year, a student must obtain at least half the marks awardable at that examination. To pass the sessional examination at the end of the third year, he must obtain half the aggregate marks awardable at that examination 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 pass the examination at the end of the second year must re-examine the subjects in which he failed at the end of the third year or at the final examination either leave the college or if considered eligible may be permitted to re-examine the subjects in which he failed at the end of the third year or at the final examination. A student who fails to obtain the necessary marks to pass the examination at the end of the third year shall not be permitted to proceed to the fourth year, but must either leave the college or join the class designated below his own. Such students shall be ineligible for scholarships, prizes or guaranteed appointments. No student shall be permitted to remain more than five 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 student 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 after promotion from the probationary subordinate class shall extend over three years, of which two shall be spent in the college and the third 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) Algebra (100), (2) Geometry (100), (3) Plane trigonometry (100)	.. .. .	..	300
BRANCH II.—ENGINEERING.			
1. Drawing.—Machine drawing (100), building drawing and estimating (300)	.. .. .	..	400
2. Applied mechanics	.. .. .	..	200
3. Construction	.. .. .	..	200
4. Hydraulic engineering	.. .. .	..	250
5. Mechanical engineering	.. .. .	..	150
6. Surveying.—Levelling (100), theodolite surveying (100)	.. .. .	..	200
		1,400	
Workshop Practice	.. .. .	..	200
Physical Exercises	.. .. .	..	100
		2,000	

19. A sessional examination shall be held at the end of the first year at which portions of the above subjects shall be finally disposed of. The marks awarded at these examinations shall be included in the final total. All students must satisfy the Principal of the college in practical surveying.

20. In order to pass 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 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 the 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 three years in the class. 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 together with that of the probationary subordinate class 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 for the third year and the marks assigned to each shall be as follows:—

		Marks.	Marks.
1. Drawing.—Machine drawing (100), building drawing and estimating (300)	.. .. .	..	400
2. Applied mechanics	.. .. .	..	100
3. Construction	.. .. .	..	100
4. Surveying.—Levelling (100), theodolite surveying (100)	.. .. .	..	200
		800	
Workshop Practice	.. .. .	..	100
Physical Exercises	.. .. .	..	100
		1,000	

24. All students must satisfy the Principal of the college in practical surveying.

25. In order to pass the final examination a student must obtain half the total marks allotted to the whole course. A student who fails to obtain qualifying marks at the final examination shall not pass out, but must either leave the college or join the next year's division. 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.

(iv) Probationary Subordinate Class.

26. The course of instruction shall extend over two years and be preliminary to the upper and lower subordinate courses.

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

BRANCH I.—MATHEMATICS.		Marks.	Marks.
Arithmetic	.. .. .	..	100
Mensuration	.. .. .	..	100
		200	
Elements of plane trigonometry		..	100
		300	
BRANCH II.—ENGINEERING.			
Drawing.—Free hand and model	.. .. .	..	100
Geometrical	.. .. .	..	300
Machine	.. .. .	..	100
Building	.. .. .	..	100
Elementary applied mechanics	.. .. .	..	100
Construction	.. .. .	..	100
		1,000	
Surveying.—Chain, compass, plane table and levelling	.. .. .	..	200
		200	
Workshop Practice	.. .. .	..	100
Physical Exercises	.. .. .	..	100
		200	
Total		1,500	

27. An examination shall be held at the end of the second year on the results of which a selected number, not exceeding thirty, of probationary subordinate students shall be promoted to the upper subordinate class for higher training. Probationary subordinate students not so selected, but who pass the examination, shall constitute the lower subordinate class for the following year.

28. In order to pass the examination a student must obtain half the total marks allotted to the course. A student who fails to obtain the qualifying marks must either leave the college or rejoin the class for another year. Such students shall be ineligible for scholarships or prizes. No student shall be permitted to remain more than three years in the class.

STRENGTH OF CLASSES.

29. The number of students to be admitted annually shall ordinarily be limited to 20 in the engineer class, and 90 in the probationary subordinate class.

ADMISSIONS AND WITHDRAWALS.

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

31. Admission shall be once a year, on the 1st July (unless that date falls on a Saturday or Sunday, when the students shall join on the following Monday) for all classes.

32. 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.

33. 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.

34. Candidates must have passed the Intermediate examination of the Madras University with group I as the optional branch or an examination accepted by Government as equivalent thereto, and must be under 20 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 Intermediate examination with group I as the optional branch 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 by the Principal, 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. 5, which will under no circumstances be refunded. Applications will be received by the Principal up to the 1st day of May. The names of the candidates to be admitted shall be published in the Fort St. George Gazette.

(ii) Probationary Subordinate Class.

37. Candidates must be either holders of completed secondary school leaving certificates considered by the Principal of the college as satisfactory or must have passed the Matriculation examination of the Madras University or an examination accepted by Government as equivalent thereto. Candidates must be under 20 years of age on the 30th June of the year of admission. The number of candidates admitted annually shall not ordinarily exceed 90. If the number of applicants exceeds 90 admission shall be regulated by further selection by the Principal. Persons who present themselves for the public examination under the scheme for the award of secondary school leaving certificates or 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 being awarded completed certificates in the one case and on their passing the examination in the other.

38. Candidates otherwise qualified but whose age exceeds the maximum above laid down, may be admitted by the Principal, 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.

(iii) All Classes.

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

- a sum of money, to be drawn against for instruments and books, which shall be for the engineer class Rs. 120, and for the probationary subordinate class Rs. 100;
- a health certificate from a gazetted Government medical officer to the effect that the candidate is fit for the out-door work of the Public Works Department, and that he has had small-pox or has been vaccinated;
- his University diploma or certificate;
- testimonials of good character covering the last two years;
- satisfactory evidence of age;
- 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 shall be submitted in I.A.F.U. 1740 and 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:—

- extract from regimental defaulter's and court-martial books for the whole period of service;
- extract from company defaulter's book for the preceding two years;
- statement of the trade followed by the candidate before enlistment;
- certificate of good eye-sight, sound health and unimpaired constitution, signed by a medical officer in the following form:—

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

Name.

Designation.

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

- a descriptive roll;
- the record of service;

- a last-pay certificate;
- last rations and bedding certificates;
- a certified list of clothing and necessaries in their possession when quitting their regiment;
- a certificate of the carriage, if any, furnished to them at the Government expense, etc., on leaving their regiments to proceed to Madras;
- medical history sheet.

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 join the probationary subordinate class. Probationers who fail to pass the examination held at the end of the second year 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 apprentices overseas 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. Travelling allowances to military apprentices joining or on works will be drawn at the rates sanctioned for officers of the third class under Civil Service Regulations.

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
Probationary 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.

* They shall, when posted to hill stations, or employed in hill tracts and other special localities for which local allowances have been prescribed for the members of the Public Works Department in Appendix 19 to the Public Works Department Code, Volume III, or have been specially sanctioned by Government, also draw a local allowance of Rs. 10 per mensem.

tenable in each case for one year. 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.

Proviso.—If the award of scholarships under this rule students who hold one of the scholarships mentioned in rule 51 shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

36. *Other scholarships.*—A Walker scholarship of the value of about Rs. 14 *per mensem* is tenable for two 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, and a Mangalore Jubilee scholarship of the value of about Rs. 13 *per mensem* may be awarded to a student from South Canara.

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50. *Government Scholarships.*—Two scholarships of the monthly value of Rs. 15 each will be annually awarded in each of the four class-divisions. At the commencement of the first year of study these scholarships will be granted by the Principal at his discretion; at the commencement of the second year they will be awarded to the students who obtain the highest number of marks during the first year, and at the beginning of the third and fourth years to the students who stand highest at the sessional examinations. A third scholarship of the monthly value of Rs. 15 will be awarded annually in each class-division by the Principal to a student who does not hold one of the first-mentioned scholarships, preference being given to a Muhammadan, or an Indian Christian, or a European or Eurasian, in the order named. The above scholarships are

51. *Other scholarships.*—The Government of Mysore awards Engineering scholarships annually of Rs. 30 *per mensem* tenable for three years. Scholarships are also awarded occasionally by the Nizam's Government, the Governments of Ceylon and Cochin and the Commissioner of Coorg. The University scholarships founded by the Maharajas of Travancore and Cochin, of the value of about Rs. 30 *per mensem*, and the Bowen Memorial (Mysore) scholarship, tenable for the minimum period necessary to qualify for the B. B. 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.

To be substituted for the proviso to rule 55—

Proviso.—In the award of scholarships under this rule, the student who holds one of the scholarships mentioned in rule 56 shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

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55. *Government Scholarships.*—Two scholarships of the monthly value of Rs. 10 each will be awarded annually in each of the two class-divisions. 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 two class-divisions by 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. The above scholarships are tenable in each case for one year. One scholarship of Rs. 15 *per mensem*, tenable for two 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.

Proviso.—In the award of scholarships under this rule the student who holds one of the scholarships mentioned in rule 56 shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

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 four 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 third and fourth 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.

Proviso.—In the award of scholarships under this rule, students who hold one of the scholarships mentioned in rule 51 shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

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 or employed in hill tracts and other special localities for which local allowances have been prescribed for the members of the Public Works Department in Appendix 19 to the Public Works Department Code, Volume III, or have been specially sanctioned by Government. 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 annually awarded in each of the two class-divisions. 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 two 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 two 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.

Proviso.—In the award of scholarships under this rule, the student who holds the scholarship mentioned in rule 56 shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

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 medallist 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 or employed in hill tracts and other special localities for which local allowances have been prescribed for the members of the Public Works Department in Appendix 19 to the Public Works Department Code, Volume III, or have been specially sanctioned by Government. 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.

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

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 join the probationary subordinate class. Probationers who fail to pass the examination held at the end of the second year 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. Travelling allowances to military apprentices joining or on works will be drawn at the rates sanctioned for officers of the third class under Civil Service Regulations.

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
Probationary 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.

* They shall, when posted to hill stations, or employed in hill tracts and other special localities for which local allowances have been prescribed for the members of the Public Works Department in Appendix 19 to the Public Works Department Code, Volume III, or have been specially sanctioned by Government, also draw a local allowance of Rs. 10 per mensem.

60. Two scholarships of the monthly value of Rs. 8 each will be awarded to the two students in the class who obtain the highest marks at the probationary sessional examinations. A third scholarship of the monthly value of Rs. 8 will be awarded by 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. The above scholarships are tenable in each case for one year. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

Proviso.—In the award of scholarships under this rule the students who hold the scholarships mentioned in rule 60 (a) shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit.

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To be inserted as a new rule—

60. (a) Other scholarships.—Mangalore Jubilee scholarships of the value of about Rs. 13 per mensem may be awarded under certain conditions to students who are natives of South Canara.

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~~Proviso.~~—In the award of scholarships under this rule, the students who hold the scholarships mentioned in rule 60 (a) shall be treated as disqualified and the scholarship will be awarded to the student who stands next in order of merit. *90 N. 507 2d, 4-6-12 (1)*

62. Four scholarships of the monthly value of Rs. 8 will be awarded annually in each of the class-divisions. At the commencement of the first year of study the scholarships will be granted by the Principal at his discretion. At the beginning of the second year they will be awarded to the students who obtain the highest number of marks during the first year. A fifth scholarship of the monthly value of Rs. 8 will be awarded annually in each of the two class-divisions by 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. The above scholarships are tenable in each case for one year. Scholarships may be reduced or forfeited for misconduct, idleness or want of progress.

~~Proviso.~~—In the award of scholarships under this rule the students who hold the scholarships mentioned in rule 62 (a) shall be treated as disqualified and the scholarships will be awarded to the student who stands next in order of merit.

~~Proviso.~~—In the award of scholarships under this rule, the students who hold the scholarships mentioned in rule 62 (a) shall be treated as disqualified and the scholarships will be awarded to the student who stands next in order of merit.

~~to be inserted as a new rule—~~

62. (a) Other scholarships.—Mangalore Jubilee scholarships of the value of about Rs. 1000 may be awarded under certain conditions to students who are natives of Mangalore.

(iii) *Lower Subordinate Class.*

60. Two scholarships of the monthly value of Rs. 8 each will be awarded to the two students in the class who obtained the highest marks at the probationary sessional examinations. A third scholarship of the monthly value of Rs. 8 will be awarded 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. Prizes will be given to students who display proficiency in special subjects.

(iv) *Probationary Subordinate Class.*

62. Four scholarships of the monthly value of Rs. 8 will be awarded annually in each of the class-divisions. At the commencement of the first year of study the scholarships will be awarded by the Director of Public Instruction on the recommendation of the Principal. At the beginning of the second year they will be awarded to the students who obtain the highest number of marks during the first year. A fifth scholarship of the monthly value of Rs. 8 will be awarded annually in each of the two 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.

Special Prizes.

63. Three 'Sir Madhava Ran' 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 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 *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.

EXAMINATIONS.

70. 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.

"Unless specially exempted by the Principal, no student will be allowed to appear for any college examination if he has been absent without leave from a prescribed survey camp or has failed to attend the college for at least four-fifths of the working days in the preceding college year."

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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 shall be issued showing that the candidate has passed the final examination. On the satisfactory completion of the practical course a diploma, signed by the Principal and the Director of Public Instruction, shall be issued, setting forth the qualifications of the student for employment as a civil engineer, a mechanical engineer, or as an upper subordinate engineer.

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

73. *Lower Subordinate class.*—On the completion of the course, a certificate signed by the Principal shall be issued, stating that the student has passed the final examination and is qualified for employment as a lower subordinate engineer or as a surveyor or a draftsman.

EMPLOYMENT OF PASSED STUDENTS.

74. *Engineers.*—One appointment as apprentice engineer in the Public Works Department 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 subordinate 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 scrutinized every year, the work being entrusted in rotation to one of the senior members of the staff, who shall certify to the correctness of the stock and the entries in the register.

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.

(True Extract.)

(L.D.) L. D. 25.2.13
L. DAVIDSON,
Ag. Secretary to Government.

To the Director of Public Instruction,
Public Works Department,
Gazette.

For publication in the Gazette.
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*Revised with
specimen fees
5/11/13.*
Gazetted 5/11.

ORDINARY.

PRESS SLIP.

PREFERENCE.

LOCAL AND MUNICIPAL DEPARTMENT.

URGENT (a).

Current No....., dated.....19
G.O., No. 194, dated 1-3-1913.Number of MS. pages sent { Correspondence including orders
(b)
Notes.....Docket: College of Engineering, Madras
for the publication of the rules
of the Director of Public Instruction
31, 29 and 40 of the rules relating to the
constitution and working of the(c) Number of copies required when struck off (not including
copies for volumes and editors' table which are retained
in the Press). Complete correspondence and orders. Notes.

FOR RECORD.*

Madras Records	25	12
Ooty Records	1	4
For filing with original	1	1
Total	34	17

after the publication in the first part
of the rules as revised
to date. For Issued

Signature copies.

India Office	1		
Govt. of India			
Revenue Department	1		
Public Works Department	1		
Educational Department	1		
Dept.			
Dept.			
Dept.			
Dept.			
Total	4		

Spare copies

The C. M. C.			
The Collector of			
The P. D. B.			
The Accountant-General			
The Director of Public Instruction	12		
The Surgeon-General			
The Sanitary Commissioner			
Do. Engineer			
Do. Board			
The President, Corporation of Madras			
The			
The			
The			
The			
The			
Total	24		

INSTRUCTIONS FOR THE SECRETARIAT.

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

(b) Each letter, memorandum, or order, or set of orders, in the file of correspondence should be headed in succession with the Roman numeral I, II, III, etc., the number being written in red ink or blue chalk above the item. The particular papers to be printed in the special issue-copies should be indicated by the Roman numeral (I, II, etc.) by which that item has been headed in the correspondence file. All matter, including marginal remarks or references, to be printed should be written in ink and matter which should not be printed should be encircled. Initials and signatures that are not quite legible should be re-written distinctly.

(b) For rules regarding printing of notes, see the rules in G.O., No. 1220, Public, dated 30th November 1900.

(c) The number of copies and the details of distribution should be filled in by the Superintendent or Reference concerned.

(d) In the absence of special instructions to the Press to keep matter standing for a specified period, ordinary papers of 8 pages and under will be kept standing for one week, and larger papers for two weeks only. The type of notes and of all confidential papers is distributed immediately after striking.

(e) This slip, properly and completely filled in, should accompany every paper sent to Press; it will be returned by the Press when proofs are furnished; it should be sent to the Press when a call is made for revised proofs or when a corrected proof is sent for striking. When finally returned by Press it should be filed with the original order or letter.

INSTRUCTIONS FOR THE PRESS.

(a) If, in the opinion of the Superintendent of the Press, a paper has been marked urgent unnecessarily, he should send the Press slip to the Registrar with a remark to that effect.

(b) Unless a note to the contrary is made against the matter, pencil entries should not be printed. The Superintendent of the Press may bring to the notice of the Registrar any instance of incomplete or careless editing.

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

(d) This slip should be returned by the Press to the Secretariat when proofs are furnished; it will be sent back to the Press when proofs are returned corrected and should be finally returned to the Secretariat when struck-off copies are supplied.

(e) The names of the Secretary and Members should be printed in full when they occur on the right hand side, but only the first time when they appear on the left side, the initials alone being printed later.

* Copies distributed on..... (Press Clerk.)

† Copies distributed on..... (Despatcher.)

TO PRESS, MADRAS
OOTY.

A

Please send proof in triplicate. The papers have been carefully edited.

B

Proof returned corrected. Please strike off and send number of copies as indicated.

C

As the matter is clear manuscript and has been carefully edited, (b) proof need not be sent. Please print and supply number of copies as indicated.

Type may be released after usual interval.
at once.

Type may be released after usual interval.

PP
1/3 1/13
.....Clerk.

.....Clerk.

.....Clerk.

.....Supt.

.....Supt.

.....Supt.

(b) Three copies of proof of all notes should be sent for approval, except when instructions are given to the contrary.

SPECIAL INSTRUCTIONS.

notes will be sent later on

PP
1/3 1/13

TO BE FILLED IN BY THE PRESS.

Diary.	Initials of Press official.
Received in Press on.....	2-3-13
First proof furnished on.....	11-3-13
Call for revised proof received on.....	
Revised proof furnished on.....	
Corrected proof received for striking on.....	16-4-13
Final copies supplied on.....	16-7-13

Account of copies.	Complete copies.	Notes.	Issue copies.
Supplied to Secretariat for Record.....	24		