

AGNEL TECHNICAL COLLEGE (POLYTECHNIC)

DIPLOMA IN PRODUCTION ENGINEERING

RULES OF EXAMINATION (w.e.f July 2010)

DPE – 2010 (FT & PT) SCHEME

RULE NO. E1:

1. A candidate to be eligible for admission to the First Semester of the Diploma Course in Production Engineering shall have passed qualifying examination or an equivalent examination as prescribed for admission to the course and fulfilled other conditions as prescribed for admission to the course, by the Directorate of Technical Education or Government of Maharashtra or Competent Admission Authority of the Board.

RULE NO. E2:

- a) A candidate to be eligible for award of Diploma is required to acquire 192 credits
- b) The teaching and examination scheme for the Diploma Course shall be as per the Syllabus and the Examination Scheme prescribed by Agnel Technical College (Polytechnic) from time to time.
- c) Examination in various subjects may include:
 1. End of the term theory exams including the Unit Test/s.
 2. Practical/s
 3. Term Work (Internal + External)
 4. Orals
 5. Project and Seminar

Each of the above will constitute a separate head of passing as prescribed.

TERM WORK / PRACTICAL:

RULE NO. E3 :

Where Term Work is prescribed for a subject, each candidate must satisfactorily complete, within the walls of Agnel Technical College (Polytechnic), a set of Laboratory Experiments/ Drawing Sheets/ Design Report/ Practical Jobs as required for the subject. Journals containing the records of Laboratory Work/Drawing Sheets/Design Reports/Practical Jobs, Solutions to Assignments shall be counted as Term Work.

RULE NO. E4:

In respect of Term Work, a target date shall be fixed for the completion of individual Sheets of Drawings, Designs, Jobs, Laboratory Journals, Projects, etc., duly completed as prescribed and the Term-Work shall be collected on that date and submitted for assessment to the examiners. The Term work of the candidate who has kept the term but failed to pay examination fees shall be preserved by the Principal and presented for examination when he/ she appears next. The period of such preservation of Term Work/s shall not be more than one academic year in the case of all semesters.

RULE NO. E5 :

Term Work and performance of Practical / Oral examination shall be assessed on the basis of the depth of understanding of Principles involved and not on the basis of mere collection of results, presentation, orientation, which is not expected and will not be given credit.

RULE NO. E6:

- a) When Practical/ Oral / Term Work in any subject is assessed, the marks will be carried over to subsequent examination, unless the candidate has failed to secure passing marks, in which case the candidate will be permitted to appear at a subsequent examination without joining the college again for the purpose, except in the case of failure in Term Work when he will be required to join the College for another term and put in fresh Term Work.
- b) Marks obtained in the Unit Tests will also be similarly carried over to the subsequent examination.
- c) A candidate whose marks are carried over shall be eligible for award of Class.

RULE NO. E7:

1. No candidate shall be admitted to any Course (Subject) Examination unless he keeps terms for that Semester and is certified by the Principal that he/she has:
 - (a) Put in satisfactory attendance of at least 75% of the total lectures/ periods in Theory, Practicals, Tutorials, in every Course (Subject).
 - (b) Completed the Laboratory Practicals, Term Work, etc., prescribed for the Course (Subject) to the satisfaction of the Principal.
 - (c) Satisfactorily progressed in the studies and is of good conduct and character.

RULE NO. E8:

In case the attendance falls short by not more than 10% due to illness (certified by a Registered Medical Practitioner) or for any other reasons considered valid, the Principal may condone such deficiency and permit the candidate to appear for examination if the candidate is otherwise eligible.

RULE NO. E9:

A candidate who is disallowed from appearing at any course examination for not fulfilling conditions specified under E7(a) or (b) or (c) shall be permitted to appear for that examination provided he/she fulfills all conditions afresh.

RULE NO. E10:

A candidate who fulfills the conditions of a Course (Subject) prescribed under Rule No.E7 but does not appear at the examination may appear at a subsequent examination as an ex-student. In such case, the Term Work put in shall be preserved by the Institution and presented for examination when such a candidate appears for the examinations. However, such Term Work shall not be preserved beyond **one year**.

APPLICATION FOR ADMISSION TO EXAMINATION:

RULE NO. E11:

A candidate intending to appear for a Semester Examination shall be required to fill in an Application for Admission to the Examination in the prescribed form and submit the same along with the fee prescribed from time to time to the Principal on or before the due date notified. The Principal in addition to the regular fee will accept the Application with Late Fee as prescribed. An Application, which is not complete in all respects and is not accompanied by the prescribed fees, is liable to be rejected by the Principal.

RULE NO. E12:

Notwithstanding the submission of an Application, payment of examination fee and allotment of Examination Seat Number, the Principal shall be Competent Authority to cancel the admission to Examination of a candidate who fails to fulfill any of the relevant conditions prescribed for eligibility to appear for the examination.

UNIT TESTS

RULE NO. E13:

- a) Normally, 3 Unit Tests will be conducted, each of 20 Test Marks for a subject as prescribed. The aggregate of the best combination of any two Unit Tests Marks shall be considered for computing marks obtained out of 20.
- b) If a candidate appears for only one Unit Test and remains absent for the remaining two Unit Tests prescribed, candidate's Unit Test Marks will be calculated on the basis of Rule No E-13 (a) considering the marks of the Unit Test in which candidate remains absent as zero.
- c) A candidate who has failed or did not appear, though eligible, in any of the Course (Subject) Examinations will be allowed to improve, if he/ she so desires, his/ her performance in the Unit Tests, provided he/ she joins the Course (Subject) by applying for the admission on payment of the prescribed tuition fees. Such a candidate shall be considered as a *Casual Student*. He/She will be allowed to attend the lectures and re-appear for the regular Unit Tests in the Course (Subject) in which he/ she has failed but shall not be allowed to attend

Practicals. The revised marks obtained by the candidate shall be taken into account for the purpose of results and the Unit Tests marks obtained by the candidate previously will be treated as null and void.

- d) For Courses (Subjects) offered for First Semester, there shall be two (2) Written Test and an Oral Test, if admission process is delayed due to delay from the Department of Technical Education, Maharashtra State.

STANDARD OF PASSING AND AWARD OF CLASS:

RULE NO. E14:

“To pass an Examination of Course (Subject) a candidate must obtain a minimum of 33% of the maximum marks prescribed for Theory Paper (excluding Unit Test) and 40% of the full marks separately in each Theory Paper (including Test), Practical, Oral, Term Work, Sessional Work, etc. While deciding the minimum marks required for passing fractions of marks shall be omitted. The Theory, Practical, Oral, Term Work, Sessional Work shall be considered as separate heads of passing.”

RULE NO. E15:

- a) Under M P E & C S, the Class is awarded on 100% of the marks obtained in the following Courses (Subjects) only -

Sr. No.	Code No.	Course Name
1	10502	Tool Engineering
2	10503	Manufacturing Processes I
3	10504	Production Management
4	10505	Industrial Management & Entrepreneurship
5	10506 10507	Elective I (a) Press Tool Die Design (b) Plastic Die Design
6	10508	Professional Practice - V
7	10601	Metrology & Inspection
8	10602	CAD/CAM
9	10603	Mechatronics
10	10604	Manufacturing Processes II
11	10605	Industrial Engineering & Quality Management
12	10606	Element of Costing & Finance
13	10607 10608	Elective II (a) Process Planning & Tool Design (b) Advanced Mathematics
14	10609	Professional Practice – VI

- b) A candidate will be declared to have passed Diploma Course in First Class with Distinction if he/she obtains 75% or more of the aggregate marks in above Courses (Subjects).
- c) A candidate will be declared to have passed Diploma Course in First Class if he/she obtains 60% or more of the aggregate marks in above Courses (Subjects) and less than 75% of the aggregate marks.
- d) A candidate will be declared to have passed Diploma Course in Second Class if he/she obtains 50% or more of the aggregate marks in above Courses (Subjects) and less than 60% of the aggregate marks.
- e) If a candidate falls short of maximum ½ % of the aggregate marks assigned to the examination to obtain 75% (for First Class with Distinction) or 60% marks (for a First Class), or 50% (for Second Class), such deficiency will be made up by adding a maximum of 0.50% marks assigned to the examination to the total marks obtained by the candidate in the examination. In calculation of 0.50% of the aggregate marks, a fraction shall be rounded off as 1 (one).

RULES FOR GRACE MARKS FOR THE COURSE (SUBJECT)

RULES NO. E16

- a) A candidate falling short of 1 or 2 marks in a Theory Paper of maximum 80 marks will be graced to that extent, provided it enables him/her to secure 40 marks in the aggregate of the subject required for passing.
- b) A candidate who fails in Practical and/ or Oral Examination but passes in Theory paper will have the option to re-appear only for Practical and/or oral Examination of that subject at the next Examination. Since the Multi Point Entry and Credit System (MPE&C S) Result is based on subject passing, there will be no condonation in group of subjects.

RESULT OF EXAMINATIONS :

RULE NO. E17 :

As soon as is practicable, after conclusion of an Examination, the Principal shall declare the result of the Examination.

RULES FOR KEEPING TERM FOR HIGHER SEMESTER

RULE NO. E18:

D.P.E (FULL TIME)

1. The courses offered are classified into levels as shown below.

LEVEL I			
Sub. Code	Name of Courses	Sub. Code	Name of Courses
10101	Communication Skills	10201	Electrical Technology
10102	Engineering Mathematics-I	10202	Engineering Mathematics-II
10103	Engineering Science – I	10203	Engineering Science – II
10104	Engineering Drawing – I	10204	Engineering Drawing – II
10105	Machine Tools-I	10205	Machine Tools-II
10106	Workshop Practice – I	10206	Workshop Practice – II
10107	Professional Practices – I	10207	Professional Practices - II
LEVEL II			
Sub. Code	Name of Courses	Sub. Code	Name of Courses
10301	Mechanical Engineering	10401	Engineering Materials
10302	Electronics Engineering	10402	Computer Programming
10303	Engineering Mathematics III	10403	Engineering Mathematics IV
10304	Applied Mechanics	10404	Strength of Materials
10305	Computer Aided Drafting	10405	Theory of Machines
10306	Machine Tools III	10406	CNC Machine Tools
10307	Workshop Practice – III	10407	Workshop Practice – IV
10308	Professional Practices – III	10408	Professional Practices – IV

LEVEL III			
Sub. Code	Name of Courses	Sub. Code	Name of Courses
10501	Machine Design	10601	Metrology & Inspection
10502	Tool Engineering	10602	CAD/CAM
10503	Manufacturing Processes I	10603	Mechatronics
10504	Production Management	10604	Manufacturing Processes II
10505	Industrial Management & Entrepreneurship	10605	Industrial Engineering & Quality Management
10506 10507	Elective I Press Tool Die Design Plastic Die Design	10606	Elements of Costing & Finance
10508	Professional Practice V	10607 10608	Elective II Process Planning & Tool Design Advanced Mathematics
		10609	Professional Practices VI

2. Courses from more than one level are offered for Registration, subject to the Rules of Registration, prerequisite attached to the Courses & availability of facilities for the Course.
3. A student is eligible to Register for Level II Courses provided he/she has not failed in more than 6 Courses of Level I having term end examination (Theory/Practical).
4. A student is eligible to Register for Level III Courses provided he/she has passed all Courses of Level I and not failed in more than 6 Courses of Level II having term end examination (Theory/ Practical).

D.P.E (PART TIME)

5. The courses offered are classified into levels as shown below.

LEVEL I			
Sub. Code	Name of Courses	Sub. Code	Name of Courses
10101	Communication Skills	10202	Engineering Mathematics II
10102	Engineering Mathematics-I	10203	Engineering Science II
10103	Engineering Science – I	10204	Engineering Drawing II
10104	Engineering Drawing – I	10205	Machine Tools II
10105	Machine Tools-I	10206	Workshop Practice II
10106	Workshop Practice - I	10207	Professional Practices - II
10107	Professional Practices – I		
LEVEL II			
Sub. Code	Name of Courses	Sub. Code	Name of Courses
10201	Electrical Technology	10401	Engineering Materials
10301	Mechanical Engineering	10403	Engineering Mathematics IV
10302	Electronics Engineering	10406	CNC Machine Tools
10303	Engineering Mathematics III	10307	Workshop Practice III
10304	Applied Mechanics	10408	Professional Practices – IV
10305	Computer Aided Drafting		
10306	Machine Tools III		
10308	Professional Practices – III		

LEVEL III		LEVEL IV	
Sub. Code	Name of Courses	Sub. Code	Name of Courses
10404	Strength of Materials	10601	Metrology & Inspection
10405	Theory of Machines	10602	CAD/CAM
10402	Computer Programming	10506 10507 10603	Elective I Press Tool Die Design Plastic Die Design Mechatronics
10503	Manufacturing Processes I	10607 10608	Elective II Process Planning & Tool Design Advanced Mathematics
10604	Manufacturing Processes II	10505	Industrial Management & Entrepreneurship
10501	Machine Design	10605	Industrial Engineering & Quality Management
10502	Tool Engineering	10609	Professional Practices – VI
10504	Production Management	10606	Elements of Costing & Finance
10508	Professional Practices – V		

6. Courses from more than one level are offered for Registration, subject to the Rules of Registration, prerequisite attached to the Courses & availability of facilities for the Course.
7. A student is eligible to Register for Level II Courses provided he/she has not failed in more than 6 Courses of Level I having term end examination (Theory/ Practical)
8. A student is eligible to Register for Level III Courses provided he/she has passed all Courses of Level I and not failed in more than 6 Courses of Level II having term end examination (Theory/ Practical)
9. A student is eligible to register for Level IV Courses provided he/she has passed all courses of Level I and Level II and not failed in more than 6 Courses of Level III having term end examination (Theory/ Practical)

E18 (c)

A student eligible for exemption in any course is considered to have passed in that course and he/she can register for the courses of more than one level, subject to rules of registration, prerequisites attached to the courses are fulfilled and availability of facilities for the course.

E18 (d)

Student joining the Polytechnic will have to pass the final Diploma Examination within 8 years of joining failing which he/she will have to discontinue from the Agnel Technical College (Polytechnic).

E18 (e)

A student leaving the Polytechnic in between will not have any claim for continuation of studies if there is a break of two years or more.

VERIFICATION OF MARKS**RULE NO. E19 :**

- a) Any candidate who has appeared in the Examination may on the declaration of the result of that Examination apply to the Principal for verification of marks in any particular subject. The verification will be restricted to checking whether all the answer have been assessed and that there has been no mistake in the totaling of marks for each question / sub-question in that paper and thereto the marks have been correctly transferred to the first cover page of the answer books and that all supplements mentioned thereon by the candidate are intact.
- b) Such application must be submitted by the candidate in the prescribed form to the Principal within 10 days from the date of declaration of the Examination results and must be accompanied by a prescribed fee, for each subject, as specified from time to time.
- c) The principal of Agnel Technical College (Polytechnic) shall on receipt of such application for verification of marks in theory paper, arrange to examine the answer papers so as to see whether all the questions attempted by the candidate in those answer papers have been assessed by the examiner and whether the marks are transferred to the mark sheets and finally to the result sheets correctly.
- d) If, as a result of the verification made under this Regulation, it is found that there has been either an omission to examine and to assign marks to any answer or answers or a mistake in the totaling of the marks, the mistake shall be corrected. If, as a result of this correction, the candidate's result, as already declared, is altered in any way, he shall be informed of this corrected result, and the fee for verification shall be refunded.
- e) There is no scheme for reassessment of answer papers.

ISSUE OF STATEMENT OF MARKS

RULE NO. E20:

A candidate appearing for an Examination may offer the declaration of result obtain a certified statement of marks secured by him/ her at the examination. Marks secured by a candidate in individual questions or section of a paper will not be supplied.

REVERSAL OF RESULTS

RULE NO. E21:

In any case, where the result of an examination is declared and it is found that such result has been affected by any error (except those covered under Malpractice, Fraud, Or Improper Conduct), such cases shall be placed before the "Examination committee", for scrutiny. The Principal, as per the decision of the examination Committee," shall have the power to amend such result in such manner as shall be in accordance with the true position. No result shall, however, be amended after six months from the date of declaration of result or after the commencement of the next examination at the same level, whichever is earlier.

RULE NO. E22:

In any case, where the result of an examination has been declared and it is found that such result has been affected by malpractice, fraud or any other improper conduct whereby a candidate has benefited and such candidate has, in the opinion of the Principal, been part or privy to such malpractice, fraud or improper conduct or has connived at, such cases shall be placed before the Examination Committee for scrutiny. The Principal, as per the decision of the Examination Committee, shall have the power at any time notwithstanding the issue of a Certificate of passing and/or statement of marks, to amend the result of such candidate and make such declaration as he shall consider necessary in their behalf.

PENALTY FOR ACTS OF MISCONDUCT OF THE CANDIDATE

RULE NO. E23:

If, before, during or after the examination, it is found that a candidate is or has been guilty of misbehavior or misconduct including breach of any of the rules laid down for the proper conduct of examination, or has been found to have copied or attempted to copy, or used or attempted to use unfair means at the examination and if the misconduct is detected during the examination, he/she shall not be expelled from the examination but provisionally permitted to continue with the same paper and also permitted to appear for the remaining/full examination by the Officer-in-Charge of the examination, but supplying fresh books after obtaining an undertaking in writing from him/her in the form of undertaking prescribed.

The Officer-in-Charge / Supervisor shall then make a full written report/ statement to the Principal who will forward it to the Controller of Examination as Member-Secretary of the Examination Committee. The matter will be thoroughly investigated by the Enquiry Committee for Malpractice and their report shall be placed before the Examination Committee. The decision of the Examination Committee will be final.

The candidate whose result is thus canceled and who is further excluded from the examination for a specified period shall be eligible to re-appear as an ex-student after the expiry of the period for which he is debarred if he/ she shall otherwise eligible.

REGISTRATION OF THE TERM :

RULE NO. E24:

A student shall register, at a time, a maximum of 12 Courses (subjects) for examination. The registration of other courses shall depend upon the courses offered by the Agnel Technical College (Polytechnic) during the Semester.

In case of students who are successful in acquiring credits only in respect of some of the subjects for which they have registered during a term, the following rule shall apply in respect of maximum subject for which they can register in the subsequent terms.

In respect of the course for which the student has kept the term but has not been successful in the Theory / Practical Examination, the student can appear in the Theory / Practical Examination only. This will be known as re-registration in the subsequent term, or the student can register a fresh for the same course and repeat the same as a regular student, subject to the availability of facilities in the Polytechnic for the course. In this case he/ she shall have to again complete all the requirements of attendance, Term Work etc., for the course. The total number of Courses (including re-registration subjects) in which a student can appear at a time in any examination in any term shall not be more than twelve courses (subjects).

EXEMPTION OF SUBJECTS FOR DIFFERENT ENTRY LEVELS FOR D.P.E:**RULE NO. E25:**

DPE (Full Time & Part Time)

Course	Subject	Subject Code
Passed H.Sc XII (Science with at least 40% marks in the relevant subjects in which the exemption is claimed)	1) Communication Skills	10101
	2) Engineering Maths-I	10102
	3) Engineering Maths-II	10202
	4) Engineering Science-I	10103
	5) Engineering Science -II	10203
Passed I.T.I./ MCVC with minimum 60% marks/ XII (Tech./ Vocational)	1) Engineering Science-I	10103
	2) Engineering Science -II	10203
	3) Engineering Drawing-I	10104
	4) Engineering Drawing-II	10204
	5) Machine Tools - I	10105
	6) Machine Tools – II	10205
	7)Work Shop Practice-I	10106
	8)Work Shop Practice-II	10206

Students who have successfully completed Diploma in Mechanical Engg/ Production Technology/ Machine Tools Engg./ Automobile Engg./ or equivalent from MSBTE / other equivalent Board shall be given exemption in the Level I and Level II subjects.

