

Shri Vile Parle Kelavani Mandal's
Shri Bhagubhai Mafatlal Polytechnic

Natakkar Ram Ganesh Gadkari Marg
Vile Parle (West), Mumbai-400 056

Multi – Point Entry & Credit System

FULL TIME DIPLOMA COURSES

(SANDWITCH AND NON SANDWITCH PATTERN)

PART TIME DIPLOMA COURSES
AND

Post Diploma Course in Computer Applications

Rules and Regulations – MPE&CS (System)

As on 1st Jan., 2011

C O N T E N T S	Page No
Preamble	3
Registration	4
Code for Entry in Progress Reports	5
Verification and Approval of Registration Form	7
Transfer to Other Discipline/ Courses	8
Time Limit	9
Test Examinations and Oral	10
Improvements of Test Marks	11
Term Work	11
General Instructions	12
General	14
Inplant Training	14
Mode of Examination for Inplant Training	16
Mode of Conduct of Practical Examinations	17
Examination Rules	17
Rules for Promotion	18
Rules for Gracing	20
Award of Class and Diploma	20
Requirements for Award of Diploma	21
Rules for dealing with Malpractice / Unfair Means at Examination	21
Instructions for Filling Registration Form	23
Group Comparison Chart for Credits	26
Subject Offered Under MPE & CS	26
Full Time Diploma Course Sandwich Pattern	27
Full Time Diploma Course Non Sand witch Pattern CSE IT	35
Part Time Diploma Courses (Non Sandwich 4 Years)	38
Full Time Post Diploma Course in Computer Applications	43

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PREAMBLE

Shri Bhagubhai Mafatlal Polytechnic started 3 year Diploma Courses in 1963 and was affiliated to the Board of Technical Examinations, Maharashtra. Examinations were then conducted by the Board of Technical Examinations. Since 1969 Academic Freedom was granted to the Polytechnic which enabled it to evolve Curriculum and Examination Scheme and to introduce Inplant Training which involved industry interaction. Thus 4 year semester sandwich pattern came into existence. The scheme of examination was suitably modified to give weightage to the internal assessment to the extent of 50%. Continued/ progressive evaluation was initiated for laboratory, drawing and job practices which led to continuous monitoring of student's progress.

Since 1978-79 Partial Academic Freedom was extended to all the Full Time Diploma Courses. The scheme proved beneficial in improving teaching learning process. The students have been well received by industry.

As a further development to the above, the Multi Point Entry and Credit System (MPECS) was initiated in 1981 on progressive basis. A subject was accepted as a unit for evaluation rather than group of subjects in a semester under the pattern. Multi Point Entry and Credit System has now been operative. The first batch of students under this scheme was graduated in 1985.

The scheme provides for monitoring individual student's progress enabling him/her to keep learning in every 6 months period by registering for the subjects which are being taught during the respective first and second half. Due credits are granted to earlier attainments of students who have studied in Junior College (XIIth Science) and Technical/Vocation (ITI / XIIth Technical / XIIth Vocational) .Students can regulate their pace of studies within the rules prescribed . In 1989-90 full autonomy was granted to all seven full time diploma courses. From 1993-94 full academic autonomy was extended to all the 12 courses including Full Time Diploma, Part Time Diploma, and Post Diploma. Students have to qualify for appearing in the final examination as per details given in the rules. The examinations are conducted by the Institute and final diploma is awarded by the Institute. These rules are subject to change from time to time.

The polytechnic has started 3 years nonsandwich (without Inplant training component) Full time Diploma Programmes in Computer Engineering and Information Technology in 2001 and 2002 respectively.

REGISTRATION

- (1) All students who join the Polytechnic and/or continue their studies must **contact the respective Head of Department for Registration of Subjects** to be studied, including inplant training
- (2) **Blank Registration form** is available on payment by the students from store/office.
- (3) **A curriculum Master Chart** gives the details of all the subjects prescribed for a particular discipline along with the respective credits and codes. List of subjects offered in the first and second halves of the year (July to December and January to June) is given in these master charts.
- (4) **Selection of Subjects** must be made out of those offered for the study in the 1st/2nd half (viz. July-December [Odd Term] or January-June [Even Term]) of the year.
- (5) Registration of subjects relevant to the discipline must be done adhering to the progressive order of the subject.
- (6) The relevant subjects of various disciplines are grouped as :
 - (i) Basic (B)
 - (ii) Core (C)
 - (iii) Application (A)
 - (iv) Management (M)

Each subject is given subject code and number code.

Number code indicates number of 1 hour periods for study in theory and in practical and number of credits granted to the subject including tutorial. For example:

Subject	Subject Code	Number Code
Physics	SC-17	448 read as Theory 4 hrs; Practical 4 hrs ;Credits 8

- (7) Six months (term) period is taken as a **unit for study**.
- (8) In credit system (subject passing), it is of prime importance that student **takes initiative to study and attain the expected level of performance**.
- (9) **a. Maximum number of subjects for which a student can register is restricted to 9 subjects inclusive of 7 fresh subjects for full time diploma.**
b. Maximum number of subjects for which a student can register is restricted to 7 subjects inclusive of 5 fresh subjects for part time diploma.
- (10) **The student of one type of pattern/ scheme (full-time /part time cannot register for the subjects in any other patterns/scheme. (i.e full-time candidate cannot register for part-time subjects or vice versa). The**

scheme /credits / contact hours / system / checkpoints / pre-requisites / skills are not same for full-time four years / full-time three years / part-time four years.

The subjects of **re-registration** which may be on account of:

- (i) (a) Student appearing for examination but not passing the subjects in all heads (Th/Pr)
- (b) Student certified for examination earlier but not passed the subject (Th/Pr) due to absence at examination of any of the subject heads for passing.
- (ii) (a) **Non certification (Disallowed)** in the subject earlier.
- (b) Student who registered earlier but later on decided to withdraw will be considered after the term result declaration and has to give in writing for the term of that subject / course to be considered as null and void.

In case of (ii) (a) or (b) student will be required to attend all classes/ Lab/Practice as regular student by registering fresh.

- (iii) The student registered as RI and term is granted / completed but could not pass the examination will have to register as a repeater (RII / RIII) as the case may be in the subsequent examination. The student who fails to re-register as RII / RIII in the next immediate term / exam will automatically loose the number of subsequent attempts and its privileges.
- (iv) The student have to register the lower term subjects first (RI/ RII/ RIII) as priority before registering any fresh subject in the current term.

- (11) The registration should be done in subsequent registration period following the first registration of the subject. This may not be necessary for elective subjects/ optional subjects if a student decides to change his options.

CODE FOR ENTRY IN PROGRESS REPORTS

A continued progress report of the student will be maintained by using following codes :

- (a) (1) EX - Exempted (External Credits)
- (b) (1) RI - Registered fresh
- (2) NR - Not Registered
- (3) RII/RIII - Re –registered
- (4) RW - Withdrawal after registration (for optional subjects)
- (5) D - Not allowed to register (Debarred)/ Defaulter cancellation of the term.
- (c) (1) NC - Non Certification (Disallowed)
- (2) CE - Credits Earned

- (12) All students on the roll of polytechnic (inclusive of inplant training) except those **who are debarred on disciplinary grounds or for special reasons, have to fill in the registration form at the commencement of new semester.**

- (13) **Registration of subjects should be made by referring to the time tables displayed (for overlapping) on the notice board and lower term subjects with prerequisite shall be registered on priority basis.**
- (14) Students who have passed XIIth (Science / Technical / Vocational) can claim exemption in **subjects as per the details notified on the notice board from time to time provided they have secured at least 50% marks at the qualifying examination both in aggregate and in the subject in which exemption is claimed.**
The student who have passed ITI / ATS / MCVC/ Center of Excellence (2 year duration) / equivalent can also claim exemption provided he/she have secured at least 60% marks at the qualifying examination. Exemption should be claimed immediately after admission and not just before the examination.
- The exemption will be considered once in a year only for subjects offered at first year (i.e. subjects of First & Second semester).**
Such a claim must be supported by evidence. In case exemption is granted, **equivalent credits** will be given. This will be notified through exemption granted notice.
- (15) Students who are granted exemptions in certain subjects can register for higher level subjects in consultation with the respective HOD / Principalship. The alternate subjects will be granted only if the facility of teaching them is available as per the time table schedules in existence. **Special classes will not be arranged on any account for specific group.**
- (16) **Students who are transferred from one discipline to another should submit fresh registration form** through the respective Head of Department. Such a form must bear the **old roll number along with the new roll number** so that previous record can be correlated. All such transferred students and those who are admitted direct **to the Second Year** (i.e. to the Third Semester) should make up deficiency if any, by registering in compulsory subjects of that (the new) discipline.
- (17) Students admitted directly on the basis of XIIth Technical/Vocational or equivalent will be granted equivalent credits as per their attainment, unless otherwise they are claiming for the same case by case.
- (18) Students should fill in the registration form as per the instructions for filling registration form (Refer **below on page 23**) and in consultation with the Head of Department of their discipline and submit the same to him as specified/ notified on a notice board. In case of late admission (after the start of semester), this formality must be completed within a week of joining the polytechnic. If they fail to do so they will lose claim for getting the desired subject later.
- (19) No Withdrawal of subject(s) permitted, Once the student registered the subject(s).
If the student registered the subjects and fails to attend, it will reflect DEFAULTER / ABSENT in the mark sheet.

- (20) Besides the Head of Department of the respective discipline and controller of examination the following members of the Principalship will be available for guidance.
- (1) Principal
 - (2) Vice Principal
 - (3) Dean (Administration)
- (21) Re- registration of subject (RII, RIII – RIV- Repeater):
- (1) In case of re-registration of subjects as in i (a) and i (b) of rule of 10 due to failure in theory/practical, a student will be permitted to carry over the marks obtained by him in Term Work and in sessional (tests) at his option.
 - (2) Students re-registering for failure subjects may apply for improvement of sessional marks, if they so desire, as per current rules. They should apply for the same before due date, in response to the notice put up on Board to that effect

(22) VERIFICATION AND APPROVAL OF REGISTRATION FORMS

- (1) Heads of Departments will guide the students for registration of subjects.
- (2) They should make sure about re-registration of subject in which no credit is earned by the student. They should also verify documents (marksheets) concerning earned credits due to additional qualifications at entry. After making preliminary scrutiny of the same Heads of Departments will forward registration form to the office.
- (3) Office will receive the registration form from concern HODs after their verification, recommendation and approval (which will be reverified by the exam section) considering the registration details with the previous progress records and place the same before the approval committee consisting of:
 - (a) Principal
 - (b) Vice Principal
 - (c) Dean (Administration)
 - (d) Controller of Examinations
 - (e) Head of Department of respective discipline
- (4) The committee will scrutinizes and approve the registration forms after checking the critical cases in particular.
 - (a) Roll No. (Correcting the old Roll No. If any , due to transfer)
 - (b) Re-registration of failure/ non-certified subjects
 - (c) Sequence of subjects, looking into prerequisite level of subject/s registered and certified.
 - (d) Credits earned elsewhere.
 - (e) Minimum/maximum credits registered.
 - (f) Time limit requirements
 - (g) Payment of tuition fees
- (5) The committee may advise changes/ withdrawal of subjects or approve the form. The committee may approve the form in special cases if any.

(6) Verification should be normally completed within 2 weeks. Any change or modification if required should be communicated to the student and corrections should be authorized by the Principal / Dean (Administration) / Controller of Examinations. All such records will be maintained in exam section.

(23) **The review of progress report** of each student will be taken at the **end of two years** of joining the polytechnic.

For Full Time Diploma (Sandwich Pattern)

1. A student is allowed to register for **V semester** subjects provided, he / she has passed all the subject of **I semester and II semester**.
2. A student is allowed to register for **VII semester** subjects, provided he / she has passed all the subject of **I, II, III and IV semesters**.

For Full Time Diploma (Non Sandwich Pattern)

1. A student is allowed to register for **V semester** subjects provided, he / she has passed all the subject of **I semester and II semester**.
2. A student is allowed to register for **VI semester / Final Semester** subjects, provided he / she has passed all the subject of **I, II, and III semesters**

For Part Time Diploma

1. A student is allowed to register for **VI semester** subjects provided, he / she has passed all the subject of **I, II and III semester**.
2. A student is allowed to register for **VIII semester** subjects, provided he / she has passed all the subject of **I, II, III, IV and V semesters**.

TRANSFER TO OTHER DISCIPLINE / COURSES

- (1) Students who are admitted in first year are eligible to apply for transfer in second year. Student who claimed exemption in First Year are not eligible for seeking transfer.
- (2) Cases of students who have passed first half and second half in first attempt out of subjects for which they have registered will be considered for transfer. (The student who have passed First and Second Semester fully.)
- (3) All eligible applications will be put in merit –order **on the basis of percentage marks earned at First and Second Semester Examinations taken together**. For the purpose of putting them in proper merit, these percentage marks will be converted to marks out of 100. Transfer will be effected depending on the availability of seats computed **on the basis of vacancies due to students, who have dropped out of courses or have withdraw to go for studies elsewhere and after joining previous year students in the class as regular students**.
- (4) Students entering 1st year with XII (Science /Tech / Voc) may be able to complete the course in 3 ½ Years, if they maintain consistently good performance.

- (5) Direct admission to second year diploma course will be as per directives of Directorate of technical Education Notification issued from time to time subject to vacancy. All the check points will be applicable to that particular student issued by SBMP from time to time.
- (6) The student admitted will be requiring the subjects as per the scheme effective for that particular year of admission.
- (7) The transfer cases for internal candidates will be considered case by case on the basis of feasibility of curriculum and similar pattern of the system subject to vacancy.
- (8) Transfer from any other institute is not permitted due to different scheme and system of our institute.
- (9) Inter transfer from non sandwich to sandwich and part time to full time is not permitted due to different curriculum, scheme, pattern and system and the discipline has been predefined at time of admission.

TIME LIMIT

- (1) **The student who are declared defaulter / disallowed for first semester and second semester totally (other than any one subject term granted) will not be allowed to continue his studies in the institute. The admission stands cancelled.**
- (2) Students joining the Polytechnic will have **to complete the Diploma Course within 7 years.**
- (3) Students are expected to clear a subject in **maximum 3 consecutive attempts. Students will be required to register the same subject as RI (fresh registration since not pass the subject in three consecutive attempts for examinations) and has to undergo / complete the term as per the scheme. The same previous subject term will stand null and void.**
- (4) A student leaving the polytechnic **in between** will not have any claim for continuation of studies if (i) **there is a break of 3 years or more** (ii) it is not possible to complete the course within 7 years from the date of joining the polytechnic as mentioned earlier such students who has not taken leaving certificate (incomplete studies) can apply for continuation of studies case by case subject to approval / procedure completion by the competent authority. Such candidate will have to register for the revised offered scheme compulsorily fulfilling the criteria of the regular scheme for the term effective of that year.
- (5) A student belonging to particular scheme and has a break in study less than three years will have to register for an appropriate scheme (continuation of old scheme) offered / available during the period of continuing the studies fulfilling the criteria of the scheme.

PERIODICAL TEST EXAMINATIONS

- (1) **Tests / Sessionals** are part of Students Assessment and have **20% weightage in** overall theory examination of the subjects. Three periodically tests are conducted for each subject. Third test may be an oral examination at the end of each semester or an objective test. Each test and oral carries 25 marks. Best two of the test marks will be added and then converted to 20.
- (2) Students who remained absent for a test examination are not given repeat written tests for any reason whatsoever.
- (3) In Mathematics or any subject which are numerical oriented then for such subject all the three tests are of written type. Scope of coverage and typical practice questions for all three tests respectively are announced by the teacher in advance on the portion covered during teaching learning process as per the curriculum within the term. For such subject the numerical data may be changed at the time of conducting examination.
- (4) Questions for tests are given in advance (preferably before a week from the date of test). Data of numerical questions is changed at the time of test. **A minimum of 10 questions** are given in advance out of which two / three questions are asked at random covering the weightage of 25 marks / maximum test marks so as to maintain an element of surprise. The test examination is of 60 minutes
- (5) Normally, student may be given chance to improve his performance in oral test. In this connection, the following points should be noted
 - (i) Student must be present for the oral test as per the announced programme.
 - (ii) Chance for improvement will be given on request if student gets less than 10 marks in the oral test out of 25.
 - (iii) For each extra attempt for improvement, total marks will be deducted e.g. if student wants to have second chance, he will be assigned marks out of 20 (instead of 25) and so on.
- (6) Test marks are communicated to the students within a week and answer books are also circulated to individual students so that they can understand the snags in their answers. These answer books are stored in the department for three consecutive semesters.
- (7) **Students resorting to any mal-practice in the tests are expelled and their answer-books summarily assessed as ZERO. Cases of such students are reported by the teacher to Department Head concerned.**
- (8) Snap tests/ objective tests can be set by teachers in one or more test examinations and this can be carried out during lecture/ practice periods. Announcement for snap test will be made by the teacher in the earlier week however this marks will not be considered for his term / examination.
- (9) **Tests are scheduled as per specified programme. Any change in programme is made only with approval of concerned HOD / Principalship.**

- (10) **No minimum marks are prescribed for passing in sessional/ test.**
However, poor performance or absence at sessional / tests may result into failure for final result calculation / declaration for that term.

IMPROVEMENT OF TEST MARKS

- (1) With 20% weightage, it may be difficult for some students to score enough marks in term end examination to compensate for poor marks in tests / sessionals. If due to poor performance in Sessional Work a student may fail in theory term end examination of that subject, **provision is made for improvement of test/ sessional marks, in immediate subsequent semester.**
- (2) **Students are required to formally apply for improvement of test marks and to pay fees for the same in accordance with the notice issued in each semester.**
- (3) **Two improvement tests (written test only)** will be organized in each subject and will carry 25 marks each.
- (4) Students will appear for the improvement tests on announced dates and time. Tests will be conducted as stated earlier.
- (5) If there is not improvement in score, earlier score will be retained.
- (6) If the student appeared for improvement test and did not register the respective subject as R-II. In such cases the improvement marks will be cancelled and earlier score will be retained in R-III attempt.

TERM WORK

- (1) Term- work wherever prescribed in a subject, is of one or more of the following forms:
 - (a) Sketches and drawing
 - (b) Shop-exercises and journal/ drawings thereof.
 - (c) Experiments in laboratory and journal thereof.
 - (d) Completion of prescribed work book.
 - (e) Write up of demonstration experiments, factory visit or assigned topics.
 - (f) Field work and drawing/report in subjects such as surveying
 - (g) Assignments
 - (h) Study of Equipment / Layout.
 - (i) Assessment criteria may depend upon the type of the subject.
- (2) Out of about **18** weeks available per term, **16 weeks programme of exercise / experiments of term-work** will be planned for concerned subjects as per the scheme of the curriculum.
- (3) Student will be required to attend and complete prescribed term work.

- (4) **Term-work will not be certified and journals will not be accepted unless students have attended and carried out the work themselves.**
- (5) Students have to ensure that their attendance is recorded and their rough note books/ drawing sheets are signed by the concerned teachers.
- (6) **Students should not carry drawing sheets or workshop exercise home nor should they attempt to get it done by others.** Any such attempt will result in disqualification of the student from appearing for the semester examination and cancellation of his term for that subject.
- (7) **Subject teacher and staff have strict instructions to keep track of work of a student on individual basis and maintain records of continuous assessment for every eligible registered student.**
- (8) **Term work is assessed progressively and on continued basis.** Student should submit **the term work immediately on completion or announced dates to the concerned teacher for assessment. Failing to which student shall be declared as defaulter / disallowed of the term.**

GENERAL INSTRUCTIONS

- (1) The polytechnic desires to maintain **an academic atmosphere of trust and self-discipline** where all can work freely and there is a scope for initiative and innovation.
- (2) The polytechnic maintains close liaison with guardians as well as industry where students get training.
- (3) Students who remain at home or work elsewhere, cannot concentrate on studies. Guardians should ensure that their wards are not involved in diverse activities.
- (4) As far as studies are concerned, each student is considered responsible for his own progress and is individually tracked for subject attendance, term work and sessional work.
- (5) Students are advised to approach individual subject teachers for getting their difficulties solved. The polytechnic faculty members have been advised **not to take up tuitions nor coach S.B.M.P. students.**
- (6) **Students who are not able to attend polytechnic for a period of one week or more due to sickness should submit medical certificate in office along with their application. While granting terms, absence on medical ground will be considered in marginal cases.**
- (7) The polytechnic encourages students to take up initiative and carry out creative/ innovative jobs, such as model building/ projects, etc.
- (8) Any common problems or difficulties faced by students in general should be communicated to the Dean/Vice Principal/ Principal through respective class representative or General Secretary of Student's Association or Secretary/Chairman of Student's Chapter.
- (9) Students are advised to convey information concerning indiscipline, irregularity or harassment to Dean / Vice Principal / Principal in confidence.

They need not to reveal their identity. Due inquiries will be made and necessary action will be taken.

- (10) Ignorance is not an excuse. **Students should read notices and respond to them.**
- (11) Extension is granted for payment of tuition fees (SBMP) beyond due date in **genuine cases.**
- (12) Late payment of fees **without prior permission for extension** is accepted with **penalty and fine** up to a prescribed date.
- (13) Planned and organized absence of groups of students is banned. Activities leading to indiscipline, if any form, are viewed seriously.
- (14) Notice to the students is put up in advance for filling up the examination forms and payment of fees. A period is prescribed for the same including the late fees/penalty/fine.
- (15) Examination time tables are displayed in Notice Board about three weeks in advance for the information to the students,
- (16) Students must carry **valid identity cards** which should be presented on demand by staff members and department heads.
- (17) Identity cards have to be signed by Principalship every semester.
- (18) **Students have to carry Identity Cards and Examination Fee receipt and Hall Ticket in Examination Hall. Students without these documents are not allowed in Examination Hall.**
- (19) Cases of verification/ discrepancy in theory, if any, are dealt with after the candidates have applied as notified.
- (20) **Students should help to maintain cleanliness. Whistling, smoking, spitting and loitering in the premises is not tolerated, Disfiguring of walls/ doors etc. is not allowed. Trespassing and unauthorized entry by outsiders is not allowed.** Students should use official entrances only and not jump through fence, window.etc.
- (21) **Damage to furniture, disfiguring library books, getting outside assistance, substitution of work, stealing tools/ books etc. tearing out pages of library books and periodicals and copying at examinations are serious offences and will be dealt severely.**
- (22) No one is expected to remove any belongings / assets of the polytechnic out of gate. **A gate pass duly signed by Department Head/Section In Charge/ Registrar or higher authority is needed to take any material out of polytechnic.**
- (23) Students can operate lockers allotted to them. They must not use anyone else`s locker.

- (24) The student shall note that the optional subjects ones registered can not be withdrawn under any circumstances and all the check points will be applicable to that particular student including all the optional subject he /she registered.

If the student is fulfilling all the other requirements for award of diploma except the additional subject he/she registered, the case may be referred to the Principalship.

GENERAL

- (1) Unlike a University College, Polytechnic provides a guided programme of work. Students have to undergo all prescribed laboratory work, drawing work, assignments and have to attend lecture classes as per schedule.
- (2) **Discipline requirements while in Inplant Training at factory or site are very demanding. Hence, stress is laid on observing rules, regulations, discipline and development of proper work attitude and approach.**
- (3) **Transcript: (a) The candidate / student completing the diploma & awarded grade will only be entitled / eligible for the transcript. (b) The student has to apply with full justification for requirement of transcript on chargeable basis (No. of copies) and completing the procedures laid down by the exam section / institute. (c) The transcript will be checked / verified by the exam section & will be certified by Principalship / Controller of the examination ONLY.**

INPLANT TRAINING

Eligibility for Inplant Training

For allowing the students to go for **Phase-I of Inplant Training** (in fifth semester) the student must have passed I and II semester and must have term granted for III and IV Semester.

For allowing the students to go for **Phase-II of Inplant Training** (in eighth semester) the student must have passed I, II, III, and IV Semester and must have term granted for V, VI, and VII semester.

- (1) Students are to give the following information so as to facilitate the placement:
 - (a) Whether they have preference for factory near about residence?
 - (b) Whether they are interested in employment-oriented factories or whether they intend to go for further studies?
 - (c) Whether they can get placement letter from approved factory on their own before the schedule date of training?
 - (d) Whether they would appear for selection interviews?
 - (e) Whether they have other preference such as, Automobiles / Design / HRD Quality / Refrigeration /Maintenance / Medium/ Large-Scale Organization / Small Scale units?

- (2) Placement is done by the polytechnic **generally** under the provisions of **`Apprenticeship Act`** in consultation with the Regional Apprenticeship Adviser.
- (3) Students will follow **training programmes as evolved by the company in consultation with the polytechnic.**
- (4) The training is generally supervised by a staff member, who will be visiting the factory once in a fortnight.
- (5) Students will strictly follow factory discipline.
- (6) Students, while in inplant training, are not allowed to participate in organization of extra- curricular and sports activities. However, they are invited to Annual Day Function.
- (7) Students will submit **a joining report and guardian's undertaking immediately after joining training.** APP-5 forms and contract forms are required to be completed and forwarded through the company to the Regional Apprenticeship Advisor if the training is under the Act.
- (8) Students should not remain absent from work without prior permission of the concerned factory officials and the Polytechnic Authorities.
- (9) For the purpose of grant of terms, the requirements given by Polytechnic as regards **minimum number of days (26 week less 9 days) will prevail.**
- (10) Students will be required to submit a set of 5 Quiz questions set given by the polytechnic supervisor in consultation with the training officer of industry. 10 marks are given for each Quiz set.
- (11) **Students should approach the Supervisor or Head of Department for Grievances, if any.** The Head of Department will look into the same and do needful after inquiry.
- (12) Students will submit attendance report in prescribed form, duly signed by the Company Official, **once a fortnight** to the polytechnic supervisor, when he/she visits them at premises,
- (13) Students will submit a write up and/or inplant report giving detailed study on a relevant topic of training.
- (14) **Guardians of students have to give assurance for proper conduct etc** of their wards during inplant training.
- (15) Instructions regarding certain **Do`s and Don`ts** are given at the time of briefing the students on the eve of inplant training.
- (16) The booklet (Briefing students on the eve of inplant training) on guidelines on inplant training is available for all the students and contains related information required for industrial exposure / training.
- (17) The inplant training is coordinated by TPO / concern HOD.

- (18) The procedure related to inplant training placement will be notified by the concern heads during the previous term.
- (19) The eligibility of the candidate for placement / term attending is as per the scheme and checkpoints of the curriculum.
- (20) The prerequisite for the final term (VIIIth semester sandwich pattern) is completion / granting of term. (of IIIrd year inplant training / Vth semester).
- (21) Two consecutive inplant training can not be done as it is a sandwich pattern programme with atleast one term (6 months) teaching learning processes is to be completed between both industry exposure each of 26 weeks.
- (22) If the candidate's inplant term is granted (RI completion) and fails or remains absent for the RI examination then he may be permitted for reappearing (RII / RIII) as the case may be in the subsequent examination as per the scheme applicable for the subject of curriculum.

MODE OF EXAMINATION FOR INPLANT TRAINING

Total 200 marks are allocated as under:

- (a) 50 marks for regular performance.
These are for regularity in attendance and progress as reported by supervisors. The marks will be assigned by the polytechnic supervisor. Good behavior /conduct will be given due credit. The distribution of this continues assessment (internal assessment) will be on the basis as mentioned in the inplant diary. These records are maintained which are evaluated / assess combinly by the supervisors of the institutes and industry together. The weekly report is evaluated (graded) on sections regarding attendance, conduct / discipline, progress, motivation and cooperation of the trainee.
- (b) 50 marks for quiz tests.
The supervisors will assign jobs / test etc. on the basis of the work assign / related to the job profile of the candidate in the industry. These all documents / assessed quiz test answer papers are to be maintained by the institute supervisor. The evaluation is done on these quiz test. (Internal assessment)

In depth observations, study, using library etc. will be considered for credit-assessed by the teacher concerned.
- (c) 50 marks for inplant report
The report contains topic assigned by the teacher in consultation with the factory supervisor. Proper presentation is required. Guidance of teacher for material/ books should be taken. This is a inplant report (not a project report) containing the job profile / work assign / skilled perform etc. covering full 26 weeks training schedule systematically presented in hard copy by an individual student (not a combine report per company)
- (d) 50 marks for oral.
Items (c) and (d) to be assessed by examiners appointed by S.B.M.P.

- **Maximum 100 marks of weightage for Inplant Training will be considered in the mark sheet (GPA as per the curriculum) of final term [2nd phase term] (VIII semester).**
- **Maximum 200 marks of weightage for inplant training will be considered in the mark sheet of 1st phase term (Vth semester)**
- **The term end Examination for inplant training will be conducted out of 100 marks (50 for inplant report / dissertation and 50 for oral / viva / presentation) jointly assessed by internal and external examiner together appointed by exam section.**

MODE OF CONDUCT OF PRACTICAL EXAMINATIONS

The technical process / methodology for conduct of practical examinations in various subjects will be detailed out by respective departments. The department HODs will be coordinators and officer in charge by default respectively for the conduct of practical examinations of all the registered subjects (RI, RII, RIII). Students will be required to plan work, perform work, perform experiments, report results and give interpretation of the same. Marks for various phases/ stages will be assigned and students will be allow to pursue subsequent stages. The various criteria of evaluation / assessment will be combinely finalized by internal and external examiners together.

In practical examination, stress will be laid on the method of working, skill, safety, performance, application knowledge and accuracy of results, rather than on information which is asked in theory examination.

EXAMINATION RULES

- (1) As per the scheme of examination, performance of a candidate in (a) periodical test / sessional performance during the term (b) theory paper at the end of term (c) term-work and (d) practical / oral examination will be considered while declaring the results. The term examination number is identical with roll number of the student.
- (2) The sessional work will consist of three periodical tests including oral / objective test conducted during the term. The sessional marks of 2 best tests out of three will be taken into account. Weightage for sessional marks will be **20%** of marks of theory of subject head (as per curriculum)

Though no minimum is prescribed for sessional work, **student is advised to appear for at least two tests (including oral) in order to be eligible for the examination.**

- (3) Every subject, the theory paper for term end examination will be of 100 marks but weightage of 80% marks will be given while compiling the results.
- (4) For each subject, the marks obtained in sessional work converted to the weightage of 20% as explained in Rule 2 will be counted under "Sessional

Marks” and marks obtained in the theory paper, converted to the weightage of 80% as explained in Rule 3 will be counted under the head ‘Paper’. These two together will constitute one head of passing in theory for the subject. For purpose of conversion, half mark will be rounded to next higher number.

- (5) The term work and the practical examination will constitute **separate head in passing / result declaration.**
- (6) To pass under theory head of subject, a candidate must obtain **a minimum of 40% marks in the term end examination and 40% marks in term end paper and sessional tests taken together.**
- (7) For the purpose of passing in practical examination candidate must obtain 40% of total marks.
- (8) In order to pass in a subject, candidate must obtain minimum marks prescribed for passing in each head viz. Theory and practical examination. If candidate fails in a subject, his marks in term work and sessional will be carried over to the subsequent examination.
- (9) The Ex-ruler of earlier semester discipline wise will be generated and validated by Head of Department before every term examination.
- (10) The status report of candidate will be generated at the end of each checkpoints of the term in particular one term before the final semester of the diploma. VIIth semester (CE / ME / EE / IE / PL / CH / DE) full time and part time diploma courses and Vth semester for (CSE / IT) after declaration of respective result.
This report will be deciding the final approach awardees diploma on the basis of award winning subject as per GPA formula.

RULES FOR PROMOTION

Theory Paper:

Paper (full marks) 100

Passing of term end examination 40%

Marks earned in term end theory examination to be converted to 80%

Add Marks of both sessional work and theory paper

Passing: Theory Paper total 40% (80:20 scheme)

Though no minimum is prescribed for sessional work, students must appear for **at least two tests** (including oral) in order to be sent up for the examination.

In Sessional Work no minimum is prescribed.

In total minimum for passing 40% out of 100%

Example

	Maximum		Score			
Theory out of	100/80	40/32	40	22	29	
Sessional Work out of	20	08	00	18	11	
Total	100	40	40	40	40	40
		Pass	Pass	Fail	Fail	

The total weightage of gracing for theory component as a whole/ grand total will not be more than 3% (i.e. not more than 2 marks in 80% weightage in term end theory examination)

Example for gracing as per Rule (maximum 3%)

The grand total of weightage 100 marks of theory component (80+20) – maximum 3 marks can be added for grace if the candidate has passed (40%) the term end examination.

Total maximum marks to be added: 3

Either upto 3 to grand total of theory

Or 1 to Theory (term end) and upto 2 to theory total

Or 2 to Theory and 1 to grand total

Example for gracing marks

Theory (80%)	31+1	30+2	31+1	32	30+2	30+2	29	29	20
Sessional Work (20%)	9	10	6	5	7	8	8	11	20
	40 +1	40+2	37+1+2	37+0+3	37+2+1	38+2	37	40	40
	= 41	= 42	= 40	= 40	= 40	= 40			
	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Fail	Fail

Date of the examinations are notified on the notice board

(11) A Student who fails in the Theory/Practical/Term Work (Oral) but passes in any one of the subject head/s will have to reappear in the next sessional for the subject head in which he/she has failed.

(12) **Credit will be granted on completion of all heads of subjects.** In case of optional subject, if a student cannot clear the subject in three attempts he/she will have to leave the subject and take up alternate available subject in that group.

(13) With added grace marks minimum 32 out of 80 considered (as 40%) for passing for all subjects.

RULES FOR GRACING

- (14) A candidate failing by 1 or 2 marks in the theory paper out of 80 will be given the same as grace marks provided he/she can score 40 marks in the theory paper and sessional taken together.
- (15) A candidate passing in the theory paper but failing in aggregate is entitled for grace marks of 1, 2 or 3 on the total to enable him/her to pass the subject.
- (16) **A student who fails in Practical but passes in the Theory will have to reappear in the next session in the failure part i.e. Practical of the subject.**
- (17) Credit will be granted on completion of all the subject heads of the subjects. **If a student cannot clear any subject in 3 attempts he/she will have to leave the subject and take up alternate available subject as RI in case of optional / elective subject. The candidate does not clear any compulsory subject in consecutive three attempts he/she has to register the same subject / or equivalent as RI as per the scheme.**
- (18) **There are no grace marks in practical examination.**

Since the MPECS is based on subject passing, condonation in group of subjects cannot be granted.

AWARD OF CLASS AND DIPLOMA

- (19) **Award of Class (final year diploma) and GPA (all terms passed [no failure] subjects only)**
 - (a) Grade point average is calculated for all terms (single marksheet per term) for subjects which are passed (excluding failure subjects).
 - (b) The award of class along with GPA is declared for the candidate on completion of diploma (award winning subjects discipline wise)
 - (c) Likewise, since the scheme is based on subject passing, the grace marks are limited to individual subjects only. No grace marks for award of class.

Class	Grade Point Average (10 max) [G.P.A.]
First Class with Distinction	7 and above
First Class	6 and above but less than 7
Second Class	5 and above but less than 6
Pass Class	4 and above but less than 5

G.P.A. = sum of (GP *Credit) / sum of credits

Where G.P. = (marks scored / maximum marks) * 10

- (d) (i) A group of award winning subjects is specified for the purpose of awarding class on completion of Diploma as per curriculum.

(ii) Marks of award winning subjects are taken together for the award of diploma. A single mark sheet of award winning diploma is issued to the candidate on his completion of eligibility criteria.

REQUIREMENT FOR AWARD OF DIPLOMA

(20) Requirement for Award of Diploma

(a) Basic Subjects	:	12-21	15%
(b) Core Subjects	:	42-59	50%
(c) Application subjects	:	17-41	30%
(d) Management Subjects	:	3-12	05%
		Total	100%

Credits	Subject Group					
	Basic	Core	Application	Management	Total	Inplant Training
Earned / Exempted	12-21	42-59	17-41	3-12	100	30 (15+15) (not in %)
Min. required for Awarded of Diploma (%)						

The distribution in categorizing the subject for a particular group will depend upon the type of discipline. The BOS will approve the same on recommendation of the various courses committee within the range of percentage variation.

RULES FOR DEALING WITH MALPRACTICE / UNFAIR MEANS AT EXAMINATION

(21) Rules For Dealing With Malpractice / Unfair Means At Examination

If before, during or after the examination, it is found that a candidate is or has been guilty of misconduct including breach of any of the rules laid down for the proper conduct of the examination or has been found to have copied or attempted to copy or used or attempted to use unfair means at the examination, he/she shall be liable for punishment. Answer books of such candidates who are directly or indirectly involved or suspected to be involved in the act of copying will be instantly withdrawn by the supervisor and a report to that effect will be made by him to the Officer-In-Charge. He will issue a fresh answer book to the candidate and allow him to write the same question paper in the same session.

Such cases of malpractice during the examination and/or detected afterwards by the examiners should be reported to the Controller of Examinations for further action. At the end of any examination session the Controller of Examinations will then place all such cases before the special **examination committee**.

On reviewing the situation, on the basis of the evidence the committee may impose such a penalty which may result in:

- (a) Cancellation of result in that subject
- (b) Debarring from one or more examinations in the same subject at the subsequent sessions.
- (c) Dismissal from the polytechnic

(d) Such candidate will not be allowed to register any new subject for a specified period decided by the committee

Instructions related to mal-practice cases are conveyed to candidate / examinee through various modes including notices, supervisor announcement and printed on the answer sheet.

IMPERSONATE CASES WILL BE TREATED / VIEWED VERY SERIOUSLY AND PUNISHMENT WILL BE AS PER THE GUIDELINE OF THE STATE LEVEL COMPETANT AUTHORITY. THE DECISION OF THE EXAM COMMITTEE WILL BE FINAL.

(22) Students who has not submitted **term work of specific subject can submit the same with due modification in that subject only prior to completion / granting of the term. The entire term work in all other subjects need not be repeated.**

(23) Examination time tables are displayed on Notice Board about three weeks in advance for the information. The registered eligible candidate will have to appear for their correct subject code exam paper and preferably the lower term /compulsory subject clashing / overlapping with other registered subject on the day of examination. (same time and date)

(24) Cases of verification / discrepancy in theory / practical as well as, if any, are dealt with after the candidate has applied on notification case by case.

- Principal

N.B. This booklet should be carefully preserved. It would be required while filling the registration form for the subsequent Semesters.

INSTRUCTIONS FOR FILLING REGISTRATION FORM

INSTRUCTIONS

Students should read the rules regarding registration given in this booklet and also read the following instructions before filling in the Registration Forms:

- (1) B –Basic, C- Core, A-Application, M-Management, *- compulsory subject, # - Award Winning Subjects
- (2) **RI- Registering for the first time or being defaulter/ disallowed when registered earlier. (Required to attend classes)**
RII/RIII- (3) Re-registering only to appear for examination in theory/ practical etc being 2nd/3rd attempt etc.
- (4) Student is permitted to register for **not more than 9 subjects**, out of which **maximum 7 subjects should be fresh (RI) and remaining failures (RII/RIII...)** for full time and for part time **7 subjects** out of which **maximum 5 subjects should be fresh (RI) remaining failures (RII/RIII...)**.
- (5) A student is having only one back log subject with the term granted and not passing that particular subject **within 3 consecutive attempts** is required to **obtain special permission from the Principalship** to appear for that subject as RIV attempt case by case.
- (6) R-V registration shall not be allowed under any circumstances for any subject.
- (7) A) Only those students who have cleared all the subjects of **First and Second semesters and term granted for III and IV semester (registered compulsory subject)** will be permitted to register for **Vth Semster subjects. (Inplant Training-Phase-I)**
- (7) B) For **VIIth semster** the students must have passed all the subjects of **I, II, III, and IV** semesters. (sandwich programme)
- (8) No student should be allowed to register as R-I registration for any subject during inplant training.
- (9) A student is allowed to register for Vth semester subject, provided he / she has passed all the registered subject including compulsory of Ist semester and IInd semester. (non sandwich programme)
- (10) A student is allowed to register for VIth semester subject, provided he / she has passed all the registered subjects including compulsory of Ist, IInd, and IIIrd semester. (non sandwich programme / part time)
- (11) A student having back log of IVth semester subject with term granted may be permitted to VIth / final semester provided no other back log of any

previous semester is pending to be passed. For more than one subject back log of IVth semester (case by case) the case may be referred to Principalship for permitting to register in VIth / Final semester. The result of such candidate for final semester may be withheld (R.H.R) [award winning subject] till all the required conditions are fulfill. (non sandwich programme)

- (12) The subject Project has prerequisite of all compulsory subject, hence the candidate must have passed / term granted for the required concern prerequisite subject and the registration of project may be granted at the discrete of Head of department(case by case) (non sandwich programme)
- (13) A student is allowed to register for VIIIth semester subjects, provided he / she has passed all the registered subjects including compulsory of Ist, IInd, IIIrd, and Vth semester. (part time)
- (14) The student who are directly admitted to Third Semester should first register the lower semester subjects as per the rule of MSBTE and / or institute's under the guidance of concern Head of Department. They should also register all the subjects of Third semester along with the back log subject/s as applicable; However, all check points are applicable to the students.
- (15) Students **admitted directly to 3rd Semester** should enter credits **earned of 1st and 2nd semester** subjects for which credits are granted due to their higher entry qualification. And **Enter `EX`** against the exempted subject. After dully approved exemption and granted equivalence by the exam section.
- (16) Students **Claiming exemption** in certain subject due to higher entry qualification should enter credits for which exemption is granted. **Enter `EX` as mentioned in point 15.**
- (17) For completion of the course and award of Diploma, a student should have **minimum credits in each group of subjects (%) as follows:**

(e) Basic Subjects	:	12-21
(f) Core Subjects	:	42-59
(g) Application subjects	:	17-41
(h) Management Subjects	:	3-12

AND

Inplant Training	:	30
		(Phase – I : 15 credit and Phase- II : 15credit)

MPECS SUBJECTS GROUP

The groups covers various categories / levels incorporating foundation, core technology, auxiliary, basic, applied, allied and diversified subjects.

B- Basic

- Fundamental Courses to develop an insight to engineering and technology. (General Engineer)
- Interdisciplinary skills (eg. DGS, Communication Skills, Computer, Maths, etc.) Develop skills in some engineering areas which cut across disciplines Communication Skill is required for comprehension and transmits of knowledge.
- Essential / Necessary topics related to engineering & technology

C-Core

- Foundation Courses provide a ground work to respective engineering programmes & facilitate transition from pure sciences to applied technologies.
- Discipline oriented skill
- Origin of base related to concern specialized area of engineering program wise
- Interdisciplinary skill specialized topics
- Discipline oriented basic courses
- Heart oriented program wise most essential topics
- Central part / nucleus topics as a content coverage programme wise

A- Application

- Use of Basic & Core Courses for the engineering applications develop professional abilities areas
- Applied Taxonomy level of utilization
- Engineering application
- Functional or practical topics / coverage

M - Management

- Courses develop interpersonal and social interaction managerial roles and human relationship.
- Supervisory Management Skill
- Objective / Rational achievement general category
- Ability for upgraded monitoring skill
- Live Industry Experience
- Entrepreneur skill
- Administration

(18) Furnishing wrong information or willfully suppressing information will amount to punishable act.

GROUP COMPARISON CHART FOR CREDITS

Programme	Credit Completion	Terms Odd / Even	Student Contact Hr / Week
Full Time Diploma Programme Sandwich Pattern 4 years	210	08	30+
Full Time Diploma Programme Non Sandwich Pattern 4 years	180	06	30+
Part Time Diploma Programme 4 years	150	08	18+
Full Time Post Diploma Programme 1½ year (3 rd semester inplant)	65	03	30+

MPE & CS – CREDIT GROUP: B / C / A / M

B- BASIC,

C-CORE,

A-APPLICATION,

M-MANAGEMENT.

Total Credit to be earned for completion of Diploma Program. Full Time =180 (sandwich and non sandwich) with additional 30 credits (inplant training), for sandwich pattern course, part time =150 (non sandwich) [including compulsory credits for all programs] and award winning subjects for Award of Grade(GPA).

01 Theory Hours = 01 Practical Hours = 01 Tutorial Hour = 01 Credit

SUBJECT OFFERED UNDER MPE & CS

FULL TIME DIPLOMA COURSE SANDWICH PATTERN

B- BASIC, C-CORE, A-APPLICATION, M-MANAGEMENT, * compulsory, # award winning
(Civil / Mechanical / Electrical / Industrial Electronics / Plastic / Chemical / Digital Electronics)

Subject Name	Sub Code	L Cr	Pr Gr	Branch	Sem
Communication Skill	SS-23	303	B*	CE	I
Mathematics - I	MA-15	404	B*	CE	I
Physics	SC-17	448	B*	CE	I
Engineering Drawing – I	ME-16	268	C*	CE	I
Fundamentals of Computer & Networking System	CA-54	246	C*	CE	I
Workshop Technology	ME-26	n55	C*	CE	I
Development of Generic Skill	DG-1	303	B*	CE	II
Mathematics – II	MA-25	404	B*	CE	II
Chemistry	SC-27	448	B*	CE	II
Engineering Drawing – II	ME-36	268	C*	CE	II
Applied Mechanics	AM-16	325	C*	CE	II
Fabrication Technology	ME-46	246	C*	CE	II
Construction	CE-32	404	C*	CE	III
Mathematics-III	MA-35	404	B^	CE	III
Railway Engineering	CE-31	202	A^	CE	III
Engineering Materials	CE-34	303	C*	CE	III
Surveying-I	CE-37	448	C*	CE	III
Docks & Harbour	CE-15	202	A^	CE	III
Civil Engineering Drawing	CE-48	246	C*	CE	III
Materials & Structures	AM-37	426	C*	CE	III
Advance Mathematics	MA-45	404	B^	CE	IV
Surveying-II	CE-47	448	C*	CE	IV
Airport Engineering	CE-53	202	A^	CE	IV
Fluid Mechanics	CE-97	426	C*	CE	IV
Auto CAD	CE-49	246	A^	CE	IV
Highway & Bridge Engineering	CE-40	404	C*	CE	IV
Useof Computers in Civil Engg.	CE-44	246	A^	CE	IV
Inplant Training	CE5IT I	cr15		CE	V
Mechanics of Structures	AM-47	404	C*	CE	VI
#Con. Technology & RCC Strc	AM-56	325	A*	CE	VI
Design Practice of Steel Struc	AM-75	347	A^	CE	VI
# Environ Engineering-I	CE-60	325	C*	CE	VI
Mass Rapid Transport Systems	CE-61	202	A^	CE	VI
Industrial Management-I	ME-01	303	M^	CE	VI
# Quntity Survey Est. & Valuation	CE-57	347	M*	CE	VI

Buildign Maintenance Repairs & Services	CE-50	303	A^	CE	VI
# Design Pract. Of RCC Structure	AM-95	347	C*	CE	VII
# Soil Mechanics & Foundation Engineering	CE-76	426	A*	CE	VII
# Project Engg. & Managment	CE-98	426	A*	CE	VII
# Irrigation Engg	CE-05	426	A*	CE	VII
# Environ Engg-II	CE-78	325	C*	CE	VII
Engineering Geology	CE-77	303	C^	CE	VII
Industrial Management-II	ME-02	303	M^	CE	VII
# Civil Engineering Project	CE-79	167	C*	CE	VII
Inplant Training	CE8IT II	cr15		CE	VIII
Communication Skill	SS-23	303	B*	ME	I
Mathematics-I	MA-15	404	B*	ME	I
Chemistry	SC-27	448	B*	ME	I
Applied Mechanics	AM-16	325	C*	ME	I
Engineering Drawing-I	ME-16	268	C*	ME	I
Workshop Technology	ME-26	n55	C*	ME	I
Development of Generic Skill	DG-1	303	B*	ME	II
Mathematics – II	MA-25	404	B*	ME	II
Physics	SC-17	448	B*	ME	II
Engineering Drawing – II	ME-36	268	C*	ME	II
Fabrication Technology	ME-46	246	C*	ME	II
Fundamentals of Computer & Networking System	CA-54	246	C*	ME	II
Engineering Drawing-III	ME-37	268	C*	ME	III
Power Engineering-I	ME-38	325	C*	ME	III
Manufacturing Processes	ME-39	246	C*	ME	III
Basic Electrical & Electronics	EE -32	426	C*	ME	III
Mathematics – III	MA-35	404	C	ME	III
Industrial Engineering	ME-86	224	A	ME	III
Mechanism	ME -47	325	C*	ME	IV
#Fluid Mech & Hydc Machines	ME -48	325	C*	ME	IV
Strength of Mat. & Structures	AM -38	325	C*	ME	IV
Advanced Mathematics	MA -45	404	A	ME	IV
Power Engineering – II	ME-49	325	A	ME	IV
Industrial Management – I	ME -01	303	M*	ME	IV
Computer Aided Graphics	CA – 03	246	C	ME	IV
Inplant Training	ME5ITI	cr15		ME	V
# Automation & CAD – CAM	ME -06	325	A*	ME	VI
Industrial Management II	ME -02	303	M*	ME	VI
Modern Production Process	ME -87	246	A*	ME	VI
Foudnry Tech & Mat. Science	ME -66	235	C*	ME	VI
Elective (Any One)		325	A*	ME	VI
(i)Automobile Engineering	ME -68	325	A*	ME	VI

(ii)Mechatronics	ME- 88	325	A*	ME	VI
Mechanical Measr. & Control	ME-69	325	A	ME	VI
World Class Manufac Process	ME -89	325	A	ME	VI
#Metrology & Quality Control	ME- 05	325	A*	ME	VII
#Design of Machine Elements	ME -97	336	A*	ME	VII
#Ref & Air Conditioning	ME-98	325	A*	ME	VII
#Production Management	ME -78	325	M *	ME	VII
#Tool Des & Process Planning	ME-77	235	A*	ME	VII
#Project	ME-79	n44	A*	ME	VII
Inplant Training	ME8ITII	cr15		ME	VIII
Communication Skill	SS-23	303	B*	DE	I
Mathematics – I	MA-15	404	B*	DE	I
Physics	SC-17	448	B*	DE	I
Applied Mechanics	AM-16	325	C*	DE	I
Engineering Drawing – I	ME-16	268	C*	DE	I
Workshop Technology	ME-26	55	C*	DE	I
Development of Generic Skill	DG-1	303	B*	DE	II
Mathematics – II	MA-25	404	B*	DE	II
Chemistry	SC-27	448	B*	DE	II
Engineering Drawing – II	ME-36	268	C*	DE	II
Fabrication Technology	ME-46	246	C*	DE	II
Fundamentals of Computer & Networking System	CA-54	246	C*	DE	II
Mathematics-III	MA-35	404	C*	DE	III
C++Programming	DE-33	325	A	DE	III
Electronics W/s.Technology	IE-31	224	C	DE	III
EleX. Devices & Circuits-I	IE-39	426	C*	DE	III
Elect Mtrls Comp.& Devices	IE-32	325	A	DE	III
Electrical Technology	EE-38	325	C*	DE	III
Prin. of Digital Technniques	DE-37	325	C*	DE	III
Advanced Mathematics	MA-45	404	C	DE	IV
Microprocessor & Microcontroller	DE-41	426	A*	DE	IV
Circuits & Networks	IE-47	426	C	DE	IV
Principles of Analog Techniques	IE-48	325	C*	DE	IV
Measurement Techniques & Measuring Instruments	IE-41	325	C*	DE	IV
Electronics Devices& Circuits-II	IE-40	426	C*	DE	IV
Industrial Management-I	ME-01	303	M*	DE	IV
Inplant Training	DE5ITI	CR 15		DE	V
#Elements of Comm.Engg	IE-66	426	A*	DE	VI
#Principles of Instrumentation	IE-60	325	A*	DE	VI
Principles of Control System	IE-67	325	A	DE	VI
Signals & Systems	DE-62	325	A*	DE	VI
Servicing Techniques	IE-61	134	M	DE	VI
Industrial Electronics	DE-42	426	C*	DE	VI

#Adv. Processor Architecture	DE-72	426	A*	DE	VII
#Telematics	DE-77	426	A*	DE	VII
#Computer Networks	DE-76	426	A*	DE	VII
#Project	DE-70	167	A*	DE	VII
#Industrial Management-II	ME-02	303	M*	DE	VII
#Elective (Any One) i) Robotics	IE-73	426	A*	DE	VII
ii) Embedded System Design	DE-79	426	A*	DE	VII
Inplant Training	DE8ITII	CR 15		DE	VIII
Communication Skill	SS-23	303	B*	IE	I
Mathematics – I	MA-15	404	B*	IE	I
Physics	SC-17	448	B*	IE	I
Applied Mechanics	AM-16	325	C*	IE	I
Engineering Drawing – I	ME-16	268	C*	IE	I
Workshop Technology	ME-26	n55	C*	IE	I
Development of Generic Skill	DG-1	303	B*	IE	II
Mathematics – II	MA-25	404	B*	IE	II
Chemistry	SC-27	448	B*	IE	II
Engineering Drawing – II	ME-36	268	C*	IE	II
Fabrication Technology	ME-46	246	C*	IE	II
Fundamentals of Computer Networking System	& CA-54	246	C*	IE	II
Mathematics-III	MA-35	404	C*	IE	III
C++Programming	DE-33	325	A	IE	III
Electronics W/s.Technology	IE-31	224	C	IE	III
Elex. Devices & Circuits-I	IE-39	426	C*	IE	III
Elex Mtrls Comp.& Devices	IE-32	325	A	IE	III
Electrical Technology	EE-38	325	C*	IE	III
Prin. of Digital Techniques	DE-37	325	C*	IE	III
Advanced Mathematics	MA-45	404	C	IE	IV
Industrial Electronics	IE-42	426	A*	IE	IV
Circuits & Networks	IE-47	426	C	IE	IV
Principles of Analog Techniques	IE-48	325	C*	IE	IV
Measurement Techniques & Measuring Instruments	IE-41	325	C*	IE	IV
Electronics Devices& Circuits-II	IE-40	426	C*	IE	IV
Industrial Management-I	ME-01	303	M*	IE	IV
Inplant Training	IE5IT - I	CR15		IE	V
#Elements of Comm.Engg	IE-66	426	A*	IE	VI
#Principles of Instrumentation	IE-60	325	A*	IE	VI
Principles of Control System	IE-67	325	A*	IE	VI
Signals & Systems	DE-62	325	A	IE	VI
Servicing Techniques	IE-61	134	M	IE	VI
Microcontroller & Its Appln	IE-69	426	A*	IE	VI
#Robotics	IE-73	426	A*	IE	VII
# Power Electronics	IE-78	426	A*	IE	VII

#Advanced Instrumentation	IE-77	426	A*	IE	VII
#Project	IE-70	167	A*	IE	VII
#Industrial Management-II	ME-02	303	M*	IE	VII
#Elective (Any One)				IE	VII
(i).Adv. Communication Engg	IE-79	426	A*	IE	VII
(ii).Embedded System Design	DE-79	426	A*	IE	VII
Inplant Training	IE8ITI	CR15		IE	VII
Communication Skill	SS-23	303	B*	PL	I
Mathematics-I	MA-15	404	B*	PL	I
Chemistry	SC-27	448	B*	PL	I
Fund of Comp & NW System	CA-54	246	C*	PL	I
Engineering Drawing-I	ME-16	268	C*	PL	I
Workshop Technology	ME-26	n55	C*	PL	I
Development of Generic Skill	DG-1	303	B*	PL	II
Mathematics – II	MA-25	404	B*	PL	II
Physics	SC-17	448	B*	PL	II
Engineering Drawing – II	ME-36	268	C*	PL	II
Fabrication Technology	ME-46	246	C*	PL	II
Applied Mechanics	AM-16	325	C*	PL	II
Engineering Drawing-III	ME-37	268	C*	PL	III
Strength of Materials	AM-39	325	C	PL	III
Basic Electrical & Electronics	EE-32	426	C*	PL	III
Polymer Chemistry	SC-35	325	C*	PL	III
Int Mfg.Pro.& Aux.Equip.	PE-31	325	C*	PL	III
Material Sci. & Metallurgy	ME-07	224	C*	PL	III
Mathematics-III	MA-35	404	C	PL	III
#Technology of Plastics	PE-45	325	C*	PL	IV
Processsing of Plastics-I	PE-46	325	A*	PL	IV
Plastics Plants Equipments-I	PE-47	224	A*	PL	IV
Manufacturing Processes	ME-39	257	C*	PL	IV
Design of Mould-I	PE-48	235	A*	PL	IV
Basic Hydraulics & Pneu	ME-52	224	C*	PL	IV
Elastomer Technology	PE-68	224	A	PL	IV
Advance Mathematics	MA-45	404	A	PL	IV
Inplant Training	PE5IT I	CR15		PL	V
#Adv. Hydraulics Penumatic & System Controls	ME-53	224	A*	PL	VI
#Design of Moulds-II	PE-60	336	C*	PL	VI
Manufacturing Eco & Mktg	PE-61	325	M*	PL	VI
Poly. Comp.Blends & Alloys	PE-62	202	C	PL	VI
Plastics in Packaging	PE-66	224	A	PL	VI
Metrology & Quality Control	ME-05	325	M*	PL	VI
Mechanism	ME-47	325	C	PL	VI
#Plastics Plants Equipments-II	PE-77	224	A*	PL	VII

#Processing of Plastics-II	PE-70	325	A*	PL	VII
# Plastics Prod Design & Testing	PE-71	325	A*	PL	VII
Adv in Mould Design .& Mfg	PE-72	224	A	PL	VII
# Project	PE-78	n44	A*	PL	VII
#Prod.Mgt &Entrepreneurship	ME-56	325	M*	PL	VII
Maintenance of Plastic Machines	PE-49	325	A	PL	VII
Environmental. Science & Plastics Waste Disposal Mgnt.	PE-75	325	M	PL	VII
CAD, CAM & CIM	CA-73	235	A	PL	VII
Inplant Training	PE8IT-II	CR15		PL	VIII
Communication Skill	SS-23	303	B*	CH	I
Mathematics-I	MA-15	404	B*	CH	I
Chemistry	SC-27	448	B*	CH	I
Fundamentals of Computer & Networking System	CA-54	246	C*	CH	I
Engineering Drawing – I	ME-16	268	C*	CH	I
Workshop Technology	ME-26	n55	C*	CH	I
Development of Generic Skill	DG-1	303	B*	CH	II
Mathematics-II	MA-25	404	B*	CH	II
Physics	SC-17	448	B*	CH	II
Applied Mechanics	AM-16	325	C*	CH	II
Engineering Drawing-II	ME-36	268	C*	CH	II
Fabrication Technology	ME-46	246	C*	CH	II
Engineering Drawing – III	ME-37	268	C	CH	III
Tech. of Inorganic Chemicals	CH-31	325	C*	CH	III
Mathematics-III	MA-35	404	C	CH	III
Organic and Physical Chemistry	SC-34	224	C*	CH	III
Basic Electrical & Electronics	EE-32	426	C*	CH	III
Mechanical Operations	CH-32	426	A*	CH	III
Strength of Materials	AM-39	325	C	CH	III
Techn. of organic Chemicals.	CH-35	325	C*	CH	IV
Advance Mathematics	MA-45	404	C	CH	IV
Principles of Stoichiometry	CH-46	505	C*	CH	IV
Equipment Drawing	CH-47	156	C*	CH	IV
Fluid Flow and Heat Transfer	CH-40	426	A*	CH	IV
Industrial Management-I	ME-01	303	M*	CH	IV
Tech of Plastics	PE-45	325	A	CH	IV
Inplant Training	K5 IT I	CR15		CH	V
Material of Construction	ME-99	224	C	CH	VI
#Petroleum Refining & Petrochemicals	CH-60	325	C*	CH	VI
#Plant Utilities	CH-61	325	A*	CH	VI
Chemical Engg. Thermodynamics	CH-63	303	C	CH	VI
Plant Safety & Loss Prevention	CH-66	325	M*	CH	VI
Intro.to energy system Engg	CH-67	202	A	CH	VI
Plant Maintenance	ME-75	325	M	CH	VI

# CAD & Estimation	CH-76	268	A*	CH	VII
# Mass Transfer	CH-77	426	A*	CH	VII
# Process Instrumentation. & Control	CH-95	426	A*	CH	VII
# Chemical Reaction Engg.	CH-15	426	C*	CH	VII
# Industrial Management-II	ME-02	303	M*	CH	VII
# Pollution Control & Waste Disposal	CH-65	325	M*	CH	VII
Inplant Training	K8 IT II	CR15		CH	VIII
Communication Skill	SS-23	303	B*	EE	I
Mathematics – I	MA-15	404	B*	EE	I
Physics	SC-17	448	B*	EE	I
Fundamentals of Computer & Networking System	CA-54	246	C*	EE	I
Engineering Drawing – I	ME-16	268	C*	EE	I
Workshop Technology	ME-26	n55	C*	EE	I
Development of Generic Skill	DG-1	303	B*	EE	II
Mathematics – II	MA-25	404	B*	EE	II
Chemistry	SC-27	448	B*	EE	II
Engineering Drawing – II	ME-36	268	C*	EE	II
Fabrication Technology	ME-46	246	C*	EE	II
Applied Mechanics	AM-16	325	C*	EE	II
Mathematics-III	MA-35	404	C*	EE	III
Electrical Engg.Fundamentals	EE-36	426	C*	EE	III
Electrical Engg.Materials	EE-37	303	C	EE	III
Electrical Drawing and Workshop	EE-56	55	C	EE	III
Basic Electronics	IE-36	426	C*	EE	III
General Mechanical Engineering	ME-31	426	C*	EE	III
Industrial Management-I	ME-01	303	M*	EE	IV
Advance Mathematics	MA-45	404	A	EE	IV
#Electrical Power	EE-15	426	C*	EE	IV
Electrical Machines-I	EE-46	426	C*	EE	IV
Electrical Mahcines-II	EE-47	426	C*	EE	IV
Electrical Circuits & Networks	EE-48	426	C*	EE	IV
Inplant Training	EE5ITI	CR15		EE	V
Applied Electronics	IE-37	426	A*	EE	VI
Electrical Measurement	EE-86	426	A*	EE	VI
#Switchgear & Protection	EE-66	437	A*	EE	VI
Utilization of Electrical Energy	EE-67	426	A	EE	VI
Elect.Estimation & Costing	EE-76	437	A	EE	VI

Electrical M/c.Design	EE-77	437	A	EE	VI
#Industrial Management-II	ME-02	303	M*	EE	VII
#Project	EE-78	189	A*	EE	VII
#Elect.Instrumentation	EE-79	325	A*	EE	VII
# Testing & Maintenance	EE-05	426	A*	EE	VII
#Elective-I 1.Elec.Traction	EE-95	426	A*	EE	VII
2.Ind.Automation	EE-96	426	A*	EE	VII
3. HVAC	EE-97	426	A*	EE	VII
#Elective-II 1. Power Quality	EE-06	426	A*	EE	VII
2.Illumination Engg	EE-07	426	A*	EE	VII
3.Energy Audit&Conservation	EE-08	426	A*	EE	VII
Inplant Training	EE8ITII	CR15		EE	VIII

(w.e.f. june 2008)

FULL TIME DIPLOMA COURSE NON SANDWITCH PATTERN

**B- BASIC, C-CORE, A-APPLICATION, M-MANAGEMENT, * compulsory, # award winning
(Computer Engineering and Information Technology)**

Subject Name	Sub Code	L Pr Cr	Gr	Branch	Sem
Fundamentals of Computer & Networking System	CSE-39	246	C*	CSE	I
Mathematics – I (Ver. 2.0)	CSE-47	404	B*	CSE	I
Physics	CSE-3	348	B*	CSE	I
Programming in C / C++	CSE-35	326	C*	CSE	I
Development of Generic Skill	CSE-34	303	B*	CSE	I
Electrical Engineering	CSE-6	326	C*	CSE	II
Mathematics – II (Ver. 2.0)	CSE-48	404	B*	CSE	II
Electronic Workshop	CSE-8	325	C*	CSE	II
Electronic Devices & Circuit – I	CSE-9	326	C*	CSE	II
Communication Skill	CSE-36	303	B*	CSE	II
Engineering Graphics	CSE-41	246	C*	CSE	II
Electronic Devices & Circuit – II	CSE-12	426	C*	CSE	III
Mathematics –III (Ver. 2.0)	CSE-49	404	C*	CSE	III
Computer Network	CSE-38	325	C	CSE	III
Power Electronics	CSE-15	427	A*	CSE	III
Elements of Computer Engineering	CSE-16	426	C*	CSE	III
Data Structure	CSE-17	426	B	CSE	IV
Digital Electronics	CSE-18	326	C*	CSE	IV
Fundamentals of Operating System	CSE-40	426	C	CSE	IV
DataBase Management System	CSE-20	326	C*	CSE	IV
PC Architecture	CSE-21	426	C*	CSE	IV
Industrial Tour (Non-Examination/ Non-Creditable)	-	-	-	CSE	
Communication System	#CSE-22	427	A	CSE	V
Microprocessor – I	#CSE-23	326	A*	CSE	V
Web Programming & Java	CSE-42	426	C	CSE	V
Networking & Security	#CSE-25	326	M*	CSE	V
Computer Graphics	#CSE-26	326	A*	CSE	V
LINUX Administration	CSE-43	326	A	CSE	V
Microprocessor – II	#CSE-27	427	A*	CSE	VI
PC Maintenance & Instruments	CSE-44	427	M	CSE	VI
Elective I (any One) #	#			CSE	VI
System Analysis & Design	CSE-30	326	M	CSE	VI

Entrepreneurship Development	CSE-32	606	M	CSE	VI
Advanced Web Technology	CSE-45	326	A	CSE	VI
Elective II (Any One) #	#			CSE	VI
System Programming	CSE-29	326	A	CSE	VI
Embedded System	CSE-46	326	A	CSE	VI
Instrumentation & Control	CSE-33	326	A	CSE	VI
Project	#CSE-31	99	A*	CSE	VI
Fundamentals of Computer & Networking System	IT-35	246	C*	IT	I
Communication skill	IT-2	303	B*	IT	I
Mathematics – I (Ver. 2.0)	IT-41	404	C*	IT	I
Electro Devices & Ckts – I	IT-4	326	C*	IT	I
Engineering Graphics	IT-37	246	B*	IT	I
Mathematics – II (Ver. 2.0)	IT-42	404	B*	IT	II
Electronics Devices & Circuits - II	IT-7	426	C*	IT	II
Programming in C++	IT-8	326	C*	IT	II
Physics	IT-9	348	B*	IT	II
Development of Generic Skill	IT-10	303	B*	IT	II
Digital Electronics	IT-11	326	C*	IT	III
System Programming	IT-12	326	A*	IT	III
Data Base Management System	IT-13	326	C*	IT	III
Numerical Analysis	IT-14	426	B	IT	III
Elements of Computer Engg.	IT-15	426	C	IT	III
Software Engineering	IT-16	426	A	IT	III
Data Structure	IT-17	426	B*	IT	IV
Computer Peripherals & Devices	IT-18	426	C	IT	IV
Communication Systems	IT-19	427	A	IT	IV
Fundamentals of Operating System	IT-36	426	C*	IT	IV
Visual Basics	IT-21	426	A*	IT	IV
Open Source Technology	IT-43	124	C	IT	IV
Multimedia & Animation	IT-38	347	A	IT	V
Fibre Optic Communication	IT-23	426	C	IT	V
Networking & Security	# IT-24	326	M*	IT	V
Computer Graphics	# IT-25	326	A*	IT	V
TCP/ IP Internet	# IT-26	426	A	IT	V
Communication (Antenna Theory)	IT-27	336	C	IT	V
Elective I (Any One) #	#			IT	VI
System Analysis & Design	IT-28	326	A	IT	VI
e- Commerce	IT-32	426	A	IT	VI
Entrepreneurship Development	IT-29	606	M	IT	VI
Project	# IT-30	99	A*	IT	VI

Web Technology	# IT-31	426	A	IT	VI
Elective II (any One) #	#			IT	VI
Robotics	IT-33	336	A	IT	VI
Object Oriented Modelling & Design	IT-39	326	A	IT	VI
LINUX Administration	IT-40	326	A	IT	VI
Information Technology	# IT-34	426	A*	IT	VI

(w.e.f. June 2008)

PART TIME DIPLOMA COURSES (NON SANDWITCH 4 YEARS)

**B- BASIC, C-CORE, A-APPLICATION, M-MANAGEMENT, * compulsory, # award winning
(Civil / Mechanical / Electrical / Industrial Electronics)**

Subject Name	Sub Code	L Cr	Pr	Gr	Branch	Sem
Communication Skill	SS-23	303		B*	CE	I
Mathematics-I	MA-15	404		B*	CE	I
Physics	SC-17	448		B*	CE	I
Engineering Drawing-I	ME-16	268		C*	CE	I
Development of Generic Skill	DG-1	303		B*	CE	II
Mathematics-II	MA-25	404		B*	CE	II
Chemistry	SC-27	448		B*	CE	II
Engineering Drawing-II	ME-36	268		C*	CE	II
Applied Mechanics	AM-16	325		C*	CE	III
Workshop Technology	ME-26	55		C*	CE	III
Mathematics-III	MA-35	404		B^	CE	III
Computer Concepts & Networking	CA-54	246		C*	CE	III
Surveying-I	CE-37	347		C*	CE	IV
Engineering Materials	CE-34	303		C*	CE	IV
Construction	CE-32	303		C*	CE	IV
Fabrication Technology	ME-46	246		C*	CE	IV
Civil Engg.Drawing	CE-48	246		C*	CE	IV
Materials & Structures	AM-37	325		A*	CE	V
Railway Engineering	CE-31	202		A^	CE	V
Surveying-II	CE-47	347		C*	CE	V
Advance Mathematics	MA-45	404		B^	CE	V
Design Pract.of Steel Structures	AM-75	325		A^	CE	V
Fluid Mechanics	CE-97	325		C^	CE	VI
# Quantity Surveying Estimation & Costing	CE-57	325		M*	CE	VI
Use of Computers in Civil Engg	CE-44	145		A^	CE	VI
Airport Engineering	CE-53	202		A^	CE	VI
Auto CAD	CE-49	246		A^	CE	VI
# Highway & Bridge Engg	CE-40	303		C*	CE	VI
Industrail Management I	ME-01	303		M^	CE	VI
Soil Mechanics & Foundation Engineering	CE-76	325		C^	CE	VII
# Concrete Technology & RCC Structure	AM-56	325		A*	CE	VII
# Mechanics of Structures	AM-47	303		C*	CE	VII
# Environmental Engg-I	CE-60	325		C*	CE	VII

Industrial Management II	ME-02	303	M [^]	CE	VII
# Design Pract.of RCC Structures	AM-95	325	C*	CE	VIII
# Project Engineering Management (Elective)	CE-98	325	A*	CE	VIII
# Irrigation Engineering (Elective)	CE-05	325	A*	CE	VIII
# Environmental Engg-II	CE-78	325	C*	CE	VIII
Bldg Maint.Repairs & Serv.	CE-50	303	A [^]	CE	VIII
# Project	CE-79	145	A*	CE	VIII
Communication Skill	SS-23	303	B*	ME	I
Mathematics-I	MA-15	404	B*	ME	I
Chemistry	SC-27	448	B*	ME	I
Engineering Drawing-I	ME-16	268	C*	ME	I
Development of Generic Skill	DG-1	303	B*	ME	II
Mathematics-II	MA-25	404	B*	ME	II
Physics	SC-17	448	B*	ME	II
Engineering Drawing-II	ME-36	246	C*	ME	II
Applied Mechanics	AM – 16	325	C*	ME	III
Engineering Drawing III	ME – 35	246	C*	ME	III
Workshop Technology	ME – 26	44	C*	ME	III
Power Engineering I	ME - 54	224	C*	ME	III
Fabrication Technology	MA –46	235	C*	ME	IV
Strength of Material & Structures	AM-38	224	C*	ME	IV
Fundamentals of Computer Networking & System	CA-54	235	C*	ME	IV
Basic Electrical & Electronics	EE-32	325	C*	ME	IV
Mathematics – III	MA-35	404	C*	ME	V
Foundry Techn & Mtrl Science	ME-66	224	C*	ME	V
#Fluid Mech & Hyd. Mechanics	ME-48	224	C*	ME	V
Mechanism	ME-47	325	M*	ME	V
Power Engg. II	ME-49	224	A	ME	V
Computer Aided Graphics	CA-03	246	C	ME	V
Manufacturing Process	ME-39	235	A*	ME	VI
Automation & CAD – CAM	ME- 06	224	A*	ME	VI
Refri & Air Conditioning	ME-98	325	A	ME	VI
Industrial Engg.	ME-86	224	M	ME	VI
Industrial Management		303	M*	ME	VI
#Modern Production Process	ME-87	224	A*	ME	VII
#Design of Machine Elements	ME-97	336	A*	ME	VII
#Production Managements	ME-78	224	M*	ME	VII
Mathematics IV	MA-45	404	A	ME	VII
Automobile Engg.	ME-68	224	A	ME	VII

Mechanical Meas. & Control	ME-69	224	A	ME	VII
#Tool Design & Pro. Planning	ME-77	235	A*	ME	VIII
#Metrology & Quality Control	ME-05	224	A*	ME	VIII
#Project & Seminar		33	M*	ME	VIII
Mechatronics	ME-88	224	A	ME	VIII
World Class Manf. Practises	ME-89	224	A	ME	VIII
Communication Skill	SS-23	303	B*	EE	I
Mathematics-I	MA-15	404	B*	EE	I
Physics	SC-17	448	B*	EE	I
Engineering Drawing-I	ME-16	268	C*	EE	I
Development of Generic Skill	DG-1	303	B*	EE	II
Mathematics-II	MA-25	404	B*	EE	II
Chemistry	SC-27	448	B*	EE	II
Engineering Drawing	ME-36	268	C*	EE	II
Fundamentals of Computer & Networking System	CA-54	246	C*	EE	II
Mathematics-III	MA-35	404	C*	EE	II
Workshop Technology	ME-26	55	C*	EE	II
Electrical Engg.Materials	EE-37	303	C	EE	II
Applied Mechanics	AM-16	31.5 4.5	C*	EE	IV
Fabrication Technology	ME-46	246	C*	EE	IV
Electrical Engg.Fundamentals	EE-36	31.5 4.5	C*	EE	IV
General Mechanical Engineering	ME-31	31.5 4.5	C*	EE	IV
Advance Mathematics	MA-45	404	A	EE	IV
Electrical Drawing and W/S	EE-56	66	C	EE	V
Electrical Machines-I	EE-46	31.5 4.5	C*	EE	V
#Electrical Power	EE-15	336	C*	EE	V
Electrical Circuits & Networks	EE-48	31.5 4.5	C*	EE	V
Industrial Management-I	ME-01	303	M*	EE	VI
Basic Electronics	IE-36	31.5 4.5	C*	EE	VI
Electrical Mahcines-II	EE-47	31.5 4.5	C*	EE	VI
#Electrical Measurement	EE-86	336	A*	EE	VI
Elect.Estimation & Costing	EE-76		A	EE	VI
Applied Electronics	IE-37	31.54.5	A*	EE	VII
#Switchgear & Protection	EE-66	336	A*	EE	VII
Utilization of Electrical Energy	EE-67	31.54.5	A	EE	VII
Electrical M/c.Design OR	EE-77	336	A	EE	VII
Energy Audit&Conservation	EE-08	31.54.5	A	EE	VII
#Industrial Management-II	ME-02	303	M*	EE	VIII
#Project Work	EE-78	134	A*	EE	VIII

#Elect.Instrumentation	EE-79	31.5 4.5	A*	EE	VIII
# Testing & Maintenance	EE-05	31.5 4.5	A*	EE	VIII
#Elective-I 1.Elec.Traction	EE-95	31.5 4.5	A*	EE	VIII
2.Ind.Automation	EE-96	31.5 4.5	A*	EE	VIII
3. Power Quality	EE-06	31.5 4.5	A*	EE	VIII
Communication Skill	SS-23	303	B*	IE	I
Mathematics-I	MA-15	404	B*	IE	I
Chemistry	SC-27	448	B*	IE	I
Engineering Drawing-I	ME-16	268	C*	IE	I
Development of Generic Skill	DG-1	303	B*	IE	II
Mathematics-II	MA-25	404	B*	IE	II
Physics	SC-17	448	B*	IE	II
Engineering Drawing-II	ME-36	268	C*	IE	II
Applied Mechanics	AM-16	325	C*	IE	III
Mathematics -III	MA-35	404	C*	IE	III
Workshop Technology	ME-26	55	C*	IE	III
Electrical Technology	EE-38	325	C*	IE	III
Advance Mathematics	MA-45	404	C	IE	IV
Elex Matl Comp & Devices	IE-32	325	A	IE	IV
Elex.Devices & Circuits-I	IE-39	325	C*	IE	IV
Elex Workshop Technology	IE-31	224	C	IE	IV
Fabrication Technology	ME-46	246	C*	IE	IV
Circuits & Networking	IE-47	325	C	IE	V
Prin.of Analog Technology	IE-48	325	C*	IE	V
Elex.Devices & Ckts-II	IE-40	325	C*	IE	V
Prin.of Digital Technology	DE-37	325	C*	IE	V
Servicing Technology	IE-61	134	M	IE	V
Prin.of Control Systems	IE-67	325	A	IE	VI
#Elements of Comm.Engg.	IE-66	426	A*	IE	VI
Mesr Tech & Measr.Instr.	IE-41	325	C*	IE	VI
#Prin.of Instrumentation	IE-60	325	A*	IE	VI
Fund. of Comp.& N/W Systems	CA-54	235	C*	IE	VI
Signals & Systems	DE-62	325	A	IE	VI
Industrial Management-I	ME-01	202	M*	IE	VII
Industrial Electronics	IE-42	426	A*	IE	VII
#Microcontroller & its Appln	IE-69	325	A*	IE	VII
#Advanced Instrumentation	IE-77	325	A*	IE	VII
C++ Programming	DE-33	325	A	IE	VII
# Industrial Management-II	ME-02	303	M*	IE	VIII

# Project Work		156	A*	IE	VIII
# Power Electronics	IE-78	325	A*	IE	VIII
#Robotics	IE-73	325	A*	IE	VIII
Elective (Any One)				IE	VIII
(i) Advanced Comm.Engg.	IE-79	325	A	IE	VIII
(ii) Embedded Sys.Design	DE-79	325	A	IE	VIII

(w.e.f. June 2008)

1 ½ Year Full Time Post Diploma Course in **COMPUTER APPLICATIONS**

(With Industrial Training)

[ISO 9001:2000 Department, Vide letter Ref. No.- SQ/ISO/9001/232]

for Diploma holders in Engg. / Technology & Graduates Students

- Course** : Full- Time Post Diploma in Computer Applications (PDCA)
- Duration** : 1 and ½ years (03 Semesters) (Including Inplant Training)
- Eligibility** : Diploma in Engg./ Tech. / or Graduate; BSc. (IT) / Physics / Maths / Electronics / Computer / Statistics or equivalent from recognized University / Board.
- Fees** : As per Govt. notification (Aided Course)

The Student must achieve / earn

- 1. Total Credit 65 for award of diploma (55 compulsory and 10 optional)**
- 2. Total Credit 95 (maximum) of all subjects.**

	Credits
Sem - I	25
Sem - II	25
Sem – III	15

Minimum	65
Optional	40
Maximum	105

Note: Theory Paper will be of 3 hours duration of 100 marks to be converted to 50 marks and combined with sessional of 50 marks (best two of three periodical test each of 25 marks.)

Name of the Subject	Subject Code	LPrCr	Branch	Semester
Introduction to Computers & PC Software	DCA-41	335	PDCA	I
Data structure & Manipulation through C	DCA-31	335	PDCA	I
System Software & C programming	DCA-6	335	PDCA	I
System analysis and design	DCA-16	335	PDCA	I
Computer Added Drawing & Drafting	DCA-5	345	PDCA	I
Data Processing & Management	DCA-81	335	PDCA	II
4GL & RDBMS	DCA-71	345	PDCA	II
Introduction to object oriented programming & C++	DCA-61	335	PDCA	II
Network security	DCA-95	335	PDCA	II
Computer fault diagnosis and servicing	DCA-10	335	PDCA	II
Web page Designing	DCA-25	335	PDCA	II
Computer aided engg. Process	DCA-12	335	PDCA	II
Computer Org. & assembly language prog.	DCA-2	335	PDCA	II
Multimedia & Animation	DCA-96	335	PDCA	II
Database management system	DCA-13	335	PDCA	II
System modulation and simulation	DCA-14	335	PDCA	II
E-governance	DCA-45	335	PDCA	II
Computer base numerical analysis	DCA-20	335	PDCA	II
Software engineering and case tools	DCA-19	335	PDCA	II
Web programming and java	DCA-97	335	PDCA	II
Industrial training	DCA-17	10	PDCA	III
Project	DCA-18	5	PDCA	III

Full Time – CE/ME/EE/IE/PE/CH/DE/CSE/IT

Part Time –CE/ME/EE/IE

Status of Credits offered, comparison table group wise (Diploma Courses)

Sr No	Discipline	Compulsory Credits					Optional Credits					Award Wining Subject Credits	Total credits Offered
		B	C	A	M	Total	B	C	A	M	Total		
Full Time												----	----
1	Civil Engineering	30	111	23	07	171	08	03	31	06	48	69	249
2	Mechanical Engineering	30	83	41	11	165	-	10	23	-	33	55	228
3	Electrical Engineering	30	84	51	06	171	-	22	10	-	32	63	204
4	Industrial Engineering	30	74	59	06	169	-	14	15	04	33	60	232
5	Plastic Engineering.	30	88	36	15	169	-	16	26	05	47	53	246
6	Chemical Engineering	30	80	37	16	163	-	28	07	05	40	59	233
7	Digital Engineering	30	80	53	06	169	-	14	15	04	33	60	232
8	Computer Engineering	22	71	35	06	135	06	17	37	19	79	53	211
9	Information Technology	30	46	33	06	115	06	24	62	06	98	51	213
Part Time												Award Wining Subject Credits	Total credits Offered
1	Civil Engineering	30	85	20	05	140	08	10	23	06	47	41	187
2	Mechanical Engineering	30	65	33	10	138	0	06	24	04	34	35	172
3	Electrical Engineering	30	74.5	32.5	06	143	0	13	16.5	0	29.5	38.5	172.5
4	Industrial Engineering	19	71	43	09	142	0	13	25	04	42	45	184

Multi – Point Entry & Credit System
