

About Curriculum Development Cell

Government Polytechnic, Pune is a well-known institute located in Maharashtra's second largest industrial town, Pune, which is on international map for automobile, ancillaries and engine manufacturing and IT industries. Government Polytechnic, Pune is started in the year 1957 in Pune region of Maharashtra. Institute academic autonomy has been given by Government of Maharashtra since 1994.

Under the autonomous status, the institute is entrusted with the responsibility of designing, developing, implementing and evaluating its own curricula. In this context, the Curriculum Development Cell (CDC), after identifying needs of industries through search conferences, frame curricula of various programmes with the help of experts from industries and academicians. Implementation of curricula is done by various programs, in collaboration with industries. Feedback on implementation of curricula is obtained from various sources and accordingly review of curriculum is taken to keep pace with the changing technology. This Institute is also selected for TEQIP (Technical Education Quality Improvement Programme) in 2005.

Methodology for Curriculum Revision

Government Polytechnic Pune is offering three years Diploma Programme in Engineering since 1957. Subsequently under World Bank Project this institute was awarded the status of an autonomous institute of Government of Maharashtra. There onwards Government Polytechnic Pune is holding the responsibility of designing and revising its own curriculum. The first curriculum was implemented in 1994 under academic autonomy and subsequently it was revised and implemented in 1999, 2004, 2009, 2014 and the current revision 2019 is being implemented from academic year 2019-20. The curriculum revision is now a regular activity and the mandatory requirement of involvement of industry personnel in curriculum revision helps in enhancing the relevance of the programme curriculum.

The following table gives the details regarding the curriculum development done so far.

Year of revision of curriculum	Name of curriculum	Total credits	Brief Information of Curriculum
1994	190	190	Objective based curriculum, 7 Levels
1999	180	180	Objective based curriculum, 7 Levels

2004	180 R	180	Objective based Revised curriculum, 7 Levels
2009	180Q	180	Quality Function Deployment based curriculum, 7 Levels
2014	180S	180	Objective based Scientific curriculum, 5 Levels
2019	180 OB	180	Outcome based curriculum, 5 Levels

Well defined methodology is adopted for revising the curriculum structure and the content detailing of individual courses is carried out by group of experts. This is then approved by

- Programme Wise Board of Studies (PBOS),
- Board of Studies (BOS),
- Governing Body (GB).

The process adopted for designing the curriculum is as follows:

1. Identify skills (Cognitive, psychomotor and affective domain) by conducting industrial survey through questionnaire.
2. Record degree of identified skills of Diploma holder in industry on the scale of 1 to 4 (1- Most Important, 2-Important, 3- Less important, 4- Not preferred) through questionnaire.
3. Identify courses based on identified skills in industrial survey/feedback, by forming the competency statement/s.
4. Categorize courses into three main streams.
5. Placing the identified courses in appropriate levels.
6. Identify Course outcomes for each course based on the identified domain of learning. (cognitive, psychomotor, affective).
7. Collection of feedback from experienced faculty about content details, teaching scheme and evaluation scheme.
8. Revising the components of curriculum based on all the above feedbacks.
9. Validate the revised curriculum by Industry experts and Academia through conferences.
10. Obtain equivalence from Maharashtra State Board of Technical Education Mumbai in due course of time.

The procedure adopted for revising the outcome based curriculum is as follows:

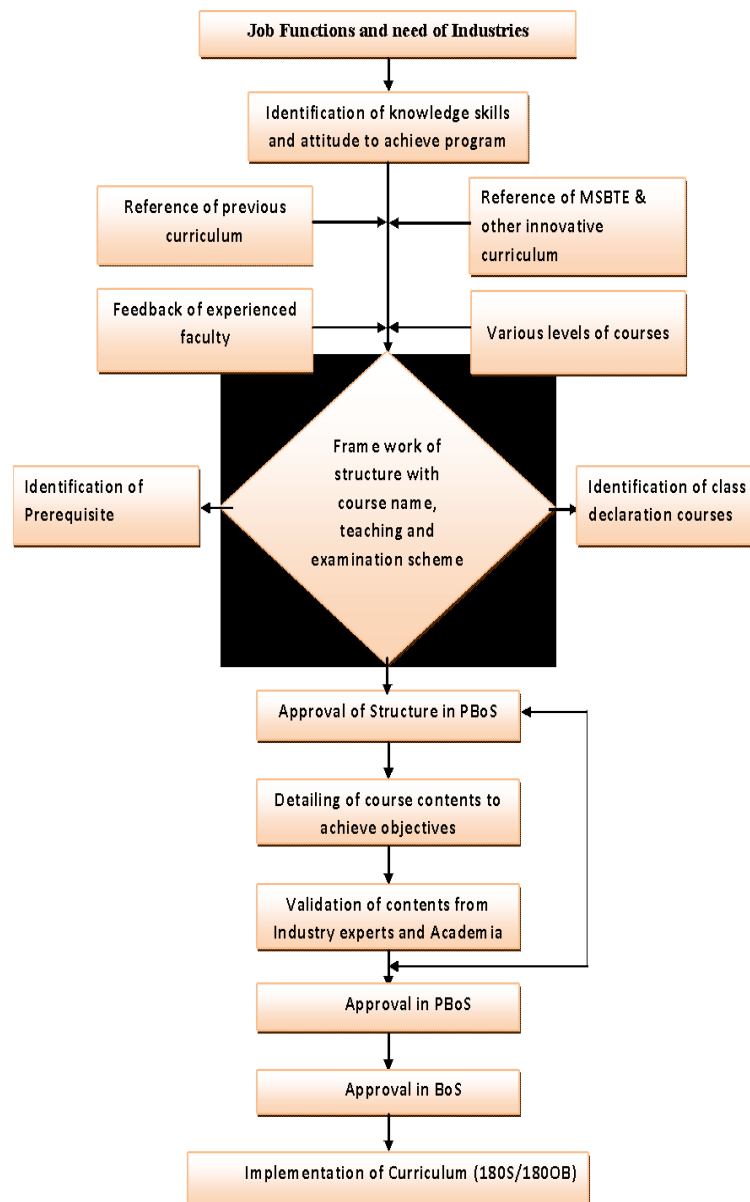
- Defining Vision and Mission statement of the department.
- Defining Program Education Outcomes (PEOs) and Program Specific Outcomes (PSOs).
- Identification of unit outcomes (UOs) and Course Outcomes (COs) for each courses.
- Mapping COs with POs and PSOs.
- Presentation of sample COs to PBoS committee for approval.

- Refining of COs based on the feedback from PBoS and experience of the faculty members.

The revised **180 OB**, Outcome based curriculum is being implemented from academic year **2019-20**.

- The curriculum format for the course is also improvised with the addition of list of major equipment required along with specification, student activities, special instructional strategies, learning resources including list of books with ISBN number and addresses of websites.
- Based on the feedback, new courses such as entrepreneurship development and start-ups The special feature of this 180 OB curriculum is inclusion of **six weeks in-plant training for all the students and micro projects for all the courses.**
- Some Pre-requisite courses are also newly added.

Flow diagram of Methodology for Curriculum Revision



Government Polytechnic, Pune

(An Autonomous Institute of Government of Maharashtra)

List of members Governing Body (GB)

Sr. No.	Name and Designation	Designation
1	Dr. Dattatray Jadhav, Joint Director of Technical Education Pune	Chairman
2	Mr. Milind Dhongade, Managing Director, Computer Home, Pune.	Member
3	Mr. Shashank Hiwarkar, Director, ETH Limited, Pune.	Member
4	Mr. Vikas Waghmare, Chief Engineer, Suma Shilp Ltd., Pune.	Member
5	Mr. Kiran Jadhav, Managing Director, Accurate Industrial Control Pvt. Ltd., Pune.	Member
6	Mr. Abhijit Phadke, Director-CTCI Test and Lab ops. Cell, Cummins India Ltd. Pune.	Member
7	Dr. Bharat Ahuja, Director, Government College of Engineering, Pune.	Member
8	Mr. Shahid Usmani, Deputy Secretary, Regional office, MSBTE, Mumbai	Member
9	Dr. S.S. Kedar, Co-ordinator, National Institute for Technical Teachers Training & Research, Extension Center, Pune	Member
10	Regional Officer, Western Regional Office (AICTE), 2 nd floor, Industrial Assurance Building, Veer Nariman Road, Church gate, Mumbai.	Member
11	Prof. K. K. Gosh, FIE, Chairman, Pune Local Chapter, Institution of Engineers (India)	Member
12	Mr. P. D. Rendalkar, General Manager, District Industries Centre, Agriculture College Compound, Shivaji Nagar, Pune	Member
13	Dr. Vitthal Bandal, Principal, Government Polytechnic, Pune	Member Secretary



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Government Polytechnic, Pune

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Members of Board of Studies (BOS) of Government Polytechnic, Pune.

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Government Polytechnic, Pune
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Curriculum Development Cell committee of Institute

Institute Level CDC Team:

Sr. No.	Name of Members	Post at CDC
1	Dr Sachin Shamraoji Bharatkar, Head of Electrical Engineering Dept.	In-Charge
2	Shri Anant Sharad Zanpure, Lecturer in Mechanical Engineering.	Member
3	Dr. Vijaykumar Kishanrao Jadhav, Lecturer in Electrical Engineering.	Member
4	Smt. Pranita Mangesh Zilpe, Lecturer in E&TC Engineering.	Member

Program wise CDC In-charges:

Sr. No.	Name of Members	Name of Program
1	Smt. Sindhu R. Panapalli Smt. Jyotsna.S. Thorat	Civil Engineering
2	Smt Ujwala S.Tulangekar Shri. Sunil P. Date	Electrical Engineering
3	Smt.Pranita M. Zilpe Mrs. Sarika S. Chhatwani	Electronics &Telecommunication
4	Mr. Sudin B. Kulkarni Dr. Aniruddha A. Gadhikar	Electrical Engineering
5	Shri.A.V.Mhetre	Metallurgical Engineering
6	Smt. Megha G. Yawalkar Mrs. Sayali P. Ambavane Smt. Lalita S. Korde Mr. Tarun P. Sharma	Computer Engineering
7	Mrs. Priyanka L. Sonawane	Information Technology
8	Mrs. Namita V. Gondane	Dress Designing & Garment Manufacturing
9	Smt.Shital A. Kakde	Science & Humanities
10	Smt.Dipti V. Saurkar	Science & Humanities
11	Shri. Sachin B. Yede	Science & Humanities
12	Smt.Saroj C. Patil	Science & Humanities