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COLLEGE INFORMATION

Founder	:	**His Excellency Pad. Dr. D. Y. Patil** (Former Governor of Bihar, Govt. of India)
President	:	**Dr. Sanjay . D. Patil** Vice Chancellor – Dr. D. Y. PatilUniversityKolhapur
Vice-President Dr. D. Y. Patil Pratisthan & **Campus Chairman** Dr. D.Y.Patil Educational Complex, Akurdi, Pune	:	**Shri. Satej D. Patil** MLC, Legislative Counsel Maharashtra State
Campus Director Dr. D. Y. Patil Pratishthan's Educational Complex, Akurdi, Pune	:	**RAdm. Amit Vikram (Retd.)**
Principal	:	**Dr. (Mrs.) P. Malathi**
HOD-First Year Engg. Dept.	:	**Dr. Sanjay K. Babar**
Postal Address of the Institute	:	Sector No. 29, Nigdi Pradhikaran, Akurdi, Pune – 411 044. State – Maharashtra
Telephone Number	:	020–27653054/58
Fax Number	:	020-27653057
Website	:	https://www.dypcoeakurdi.ac.in/
Facebook page	:	https://facebook.com/dypakurdipune
Instagram handle	:	https://www.instagram.com/dypcoe_ak/
Twitter handle	:	https://twitter.com/dypakurdipune
YouTube	:	https://www.youtube.com/channel/UCl7EyZv0Rb3QKxgTjDQ3e-Q

About First Year Engineering Department……

"The value of a college education is not the learning of many facts but the training of the mind to think "by Albert Einstein

D Y Patil College of Engineering is catering to 8 streams of Engineering – Computer, Civil, Mechanical, Information Technology, Artificial Intelligence & Data Science, Robotics & Automation, Instrumentation & Control and Electronics & Telecommunication. First Year of Engineering is common to all the Branches of Engineering and thus, First Year is a separate department called First Year Engineering Department.

The First Year Engineering Department fulfils the academic and personal needs of all First Year students by helping them to prepare for their arrival at DYPCOE, Akurdi, by planning and providing advice and counseling throughout the entire first year.

To provide guidance to the First Year students, a team of experienced and well qualified teachers are working with students to excel them in each and every subject they learn. We focus on the academic performance and overall development of young budding engineers. We follow certain procedures for enhancing the academic performance of the students like conducting internals exams remedial classes, quizzes etc. For overall development of the students we conduct various co-curricular & extra-curricular activities like industrial visit, guest lecturers, technical competitions, Sport events, Debate competition and Cultural days for boosting their technical knowledge, developing their soft skills and personality.

Outcome Based Education (OBE)

Outcome-Based Education (OBE) is an educational model that forms the base of a quality educational system targets at achieving desirable outcomes (in terms of knowledge, skills, attitudes and behavior) at the end of a program. There is no single specified style of teaching or assessment in OBE. Teaching with this awareness and making the associated effort constitutes outcome-based education. All educational activities carried out in OBE should help the students to achieve the set goals. OBE enhances the traditional methods and focus on what the Institute provides to students. OBE provides clear standards for observable and measurable outcomes

Benefits of OBE :

- ✓ **Clarity:** The focus on outcome/ creates a clear expectation of what needs to be accomplished by the end of the course.

- ✓ **Flexibility:** With a clear sense of what needs to be accomplished, instructors will be able to structure their lessons around the student's needs.

- ✓ **Comparison:** OBE can be compared across the individual, class, batch, Program and Institute levels.

- ✓ **Involvement**: Students are expected to do their own learning. Increased student involvement allows students to feel responsible for their own learning, and they should learn more through this individual learning.

Program Outcomes (POs)

• **PO 1: Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

• **PO 2: Problem Analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

• **PO 3: Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

• **PO 4: Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

• **PO 5: Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

• **PO 6: The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

• **PO 7: Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

• **PO 8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

• **PO 9: Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

• **PO 10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

• **PO 11: Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

• **PO 12: Life-Long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Savitribai Phule Pune University(SPPU)

Structure – F. E. Course 2019

SEMESTER – I

Subjects	Weekly Work load (in hrs)			Examination and Marks					Credits			
	Lect	PR.	Tut.	ISE	ESE	TW	PR.	Total	TH	PR	TUT.	Total
Engg. Mathematics –I (M- I)	03	-	01	30	70	25	-	**125**	03	-	01	**04**
Engg. Physics (Phy) / Engg. Chemistry (Chem)	04	02	-	30	70	-	25	**125**	04	01	-	**05**
Systems in Mechanical Engg. (SME)	03	02	-	30	70	-	25	**125**	03	01	-	**04**
Basic Electronics Engg.(BXE) / Basic Electrical Engg. (BEE)	03	02	-	30	70	-	25	**125**	03	01	-	**04**
Programming and Problem Solving(PPS)/ Engineering Mechanics (EM)	03	02	-	30	70	-	25	**125**	03	01	-	**04**
Workshop Practices(WS)	-	02	-	-	-	-	25	**25**	-	01	-	**01**
Total of Semester –I	**16**	**10**	**01**	**150**	**350**	**25**	**125**	**650**	**16**	**05**	**01**	**22**
Audit Course –I	**02**	**Environmental Studies-I**										
Induction program: 2 weeks at the beginning of semester-I and 1 week at the beginning of semester – II												

SEMESTER-II

Subjects	Weekly Work load (in hrs)			Examination and Marks					Credits			
	Lect	PR.	Tut.	ISE	ESE	TW	PR.	Total	TH	PR	TUT.	Total
Engg. Mathematics –II (M-I I)	04	-	01	30	70	25	-	**125**	04	-	01	**05**
Engg. Physics (Phy) / Engg. Chemistry (Chem)	04	02	-	30	70	-	25	**125**	04	01	-	**05**
Basic Electronics Engg.(BXE) / Basic Electrical Engg. (BEE)	03	02	-	30	70	-	25	**125**	03	01	-	**04**
Programming and Problem Solving(PPS)/ Engineering Mechanics (EM)	03	02	-	30	70	-	25	**125**	03	01	-	**04**
Engineering Graphics	01	02	01	-	50	25		**75**	01	01		**02**
Project Based Learning	-	04	-	-	-	25	50	**75**	-	02	-	**02**
Total of Semester –I	**15**	**12**	**02**	**120**	**330**	**75**	**125**	**650**	**15**	**05**	**02**	**22**
Audit Course-II	**02**	Environmental Studies – II										
	-	Physical Education-Exercise and Field Activities										

Course Outcomes

Sr. No.	Course Outcomes
Engineering Mathematics-I (Sem-I)	
C101.1	Students will learn mean value theorems and its generalizations leading to Taylor's and Maclaurin's series at x=0 and x other than 0 which is useful in the analysis of engineering problems such as system under conservative force.
C101.2	Students will interprets Fourier series representation and harmonic analysis which satisfies the Dirichlet condition for design and analysis of periodic continuous and discrete system, signal processing, etc.
C101.3	Students will Solve Partial Derivative of function of several variables that are essential in various branches of engineering like electromagnetic field, conduction of heat, vibration of strings.
C101.4	Students will apply the concept of Jacobian to find implicit function and functional dependence. Use of partial derivative in estimating error and approximation and finding extreme values of the function.
C101.5	Students will apply essential tool of Matrices and linear algebra in comprehensive manner for analysis of consistent system of linear equations, orthogonal and linear transformation used for image processing, electrical circuits, and traffic flow problems etc.
C101.6	Students will analyze the essential tools of square matrices and linear algebra in comprehensive manner to find Eigen values and vectors, Cayley Hamilton theorem, Diagonalization of matrix used for automobile stereo system design, system of communication, bridge construction.
Engineering Mathematics-II (Sem-II)	
C108.1	Students will learn the effective mathematics tools for solutions of first order differential equations which are required to solve physical problems such as electrical circuits to find the current at any instant.
C108.2	Students will analyze various application of first order differential equation such as Newtons law of Cooling, Orthogonal Trajectory, Heat flow, Kirchoff's Law, Rectilinear motion, Simple Harmonic Motion, Radioactive Decay.
C108.3	Students will use advanced integration techniques such as Beta function, Gamma function, Differentiation under integral sign(DUIS), Error function, Reduction formulae, which are required to solve multiple integrations and its applications to find area and volume.
C108.4	Students will sketch various curves for given equation and measure arc length for machine design.
C108.5	Students will learn concepts of solid geometry such as Sphere, Cone, Cylinder which are required to design machine tools.
C108.6	Students will evaluate multiple integration and its application to Center of gravity and Moment of inertia.
Engineering Physics (Sem-I/Sem-II)	
C102.1	Students will use interference, diffraction, and polarisation of light to illustrate working of anti-reflecting glass, resolving power of telescope, grating and liquid-crystal display (LCD).
C102.2	Students will relate monochromaticity, coherence, high intensity, and low divergence of laser in applications like holography, laser therapy, material working and optical communication.
C102.3	Students will demonstrate principles of quantum mechanics to comprehend motion of electron in material and subsequently application in working of tunnel diode and scanning tunneling microscope.
C102.4	Students will employ properties of semiconductor in procuring basic electronic components like diode, solar cell and will predict type, density, and mobility of electric charge carriers by using Hall effect.
C102.5	Students will utilise magnetic and superconducting materials for more improved designs of gadgets like transformer, magnetic data storage, superconducting quantum interface devices (SQUIDs), maglev train and cryotron (fast operating switch)
C102.6	Student will explore disorders in material by observing indications shown by NDT method on the screen and will appraise properties of nanoparticles for applications in targeted drug delivery, solid propellant, hydrophobic fabric, quantum electronics devices and supercapacitor.
Engineering Chemistry (Sem-I/Sem-II)	
C109.1	Student will apply the volumetric methods for analysis of water and differentiate techniques involved in Softening of water as commodity.
C109.2	Student will implement appropriate electro-technique and method for analysis of material
C109.3	Student will implement the knowledge of engineering materials like speciality polymer and nanomaterials for engineering applications.
C109.4	Student will analyze quality of fuel by determining calorific value and suggest use of alternative fuels obtained from renewable sources of energy.
C109.5	Student will apply the principles and instrumentation of UV-Visible and Infra-red Spectroscopy for identification of structure of chemical compounds.
C109.6	Student will interpret Mechanism of corrosion and apply protective methods for minimizing corrosion like

	metallic coating.
Systems in Mechanical Engineering (Sem-I)	
C103.1	Students will describe and compare the conversion of energy from renewable and non-renewable energy sources.
C103.2	Students will Apply basic laws of thermodynamics, heat transfer and their applications.
C103.3	Students will analyze the types of road vehicles and their specifications
C103.4	Students will illustrate various basic parts and transmission system of a road vehicle.
C103.5	Students will select appropriate process among several manufacturing processes.
C103.6	Students will examine various types of mechanism and its application.
Basic Electrical Engineering (Sem-I/Sem-II)	
C104.1	Students will differentiate electrical and magnetic circuits and derive mathematical relation for self and mutual inductance along with coupling effect.
C104.2	Students will solve series, parallel and composite capacitor circuits as well as characteristics parameters of alternating quantity and phasor arithmetic.
C104.3	Students will derive expression for impedance, current, power in pure R, pure L ,pure C ,series R-L ,R-C and R-L-C circuits and parallel RLC circuit with AC supply along with phasor diagram.
C104.4	Students will relate phase and line electrical quantities in polyphase networks, demonstrate the operation of single phase transformer and calculate efficiency and regulation at different loading conditions.
C104.5	Students will analyze the resistive circuits using star-delta conversion KVL, KCL, Superposition , Thevenins Theorem under DC supply.
C104.6	Students will evaluate work, power, energy relations for Electrical, Mechaical and Thermal systems and suggest various batteries as Lead Acid, Lithium ion Battery for different applications like UPS, automobile starting, cameras and calculator, mobile phones, laptops, concept of charging and discharging and depth of charge.
Basic Electronics Engineering (Sem-I/Sem-II)	
C110.1	Student will emphasize the importance of Electronics and usage of various Diodes like PN junction diode for rectification, Zener diode for regulation, LED or display and photo diode for detection.
C110.2	Student will analyze Transistors (BJT & MOSFET) as amplifier and switches and Op-Amps as inverting and non inverting amplifier.
C110.3	Student will build the adder circuits, analyze flip flops as a memory element and compare Microprocessor and Micro-controller.
C110.4	Student will analyze working of Electronic source and measuring instrument such as function generator, power supply, digital multi meter and digital storage oscilloscope.
C110.5	Student will analyze and apply the knowledge of temperature, pressure motion, gas and bio sensors in multidisciplinary applications.
C110.6	Student will analyze AM, FM transmitters and receivers for radio communication, GSM architecture for mobile communication and relate frequency allotment as per IEEE spectrum.
Programming and Problem Solving (Sem-I/Sem-II)	
C105.1	Students will understand the problem solving concept, problem solving aspects, programming and to use various program design tools like algorithm, flowchart and pseudo code.
C105.2	Students will learn and demonstrate input output statements, decision making, conditional statements and looping in Python.
C105.3	Students will implement functions, modules and packages in Python and execute various problems using functions in Python.
C105.4	Students will learn about strings in Python and execute various problems using strings and do some experiments with string functions in Python.
C105.5	Students will learn all features of Object Oriented Programming using Python and examine the solutions of the problems in different domains.
C105.6	Students will learn files handling operations and execute various programs in Python.
Engineering Mechanics (Sem-I/Sem-II)	
C111.1	Students will determine resultant of various force system like Concurrent, Non-Concurrent and General force system.
C111.2	Students will determine centroid, moment of Inertia and solve problem related to friction.
C111.3	Students will determine the reaction of beams and apply principles of equilibrium to forces in space.

C111.4	Students will solve trusses, frames for finding member forces and calculate forces in cables using principles of equilibrium.
C111.5	Students will calculate Position, velocity and acceleration of particle using principle of kinematics.
C111.6	Students will calculate position, velocity and acceleration of particle using principle of kinetics, work, Power, Energy.
Engineering Graphics (Sem-II)	
C112.1	Students will apply the rules for drawing fundamental engineering objects to construct the simple geometries.
C112.2	Students will analyze drawing methods of the various engineering curves curves like conics, cycloid, involute, helix, spiral, using the drawing instruments.
C112.3	Students will apply the concept of orthographic projection of an object to draw several 2D views and its sectional views for visualizing the physical state of the object.
C112.4	Students will apply the visualization skill to draw a simple isometric projection from given orthographic views precisely using drawing equipment.
C112.5	Students will analyze the development of lateral surfaces for cut section of geometrical solids.
C112.6	Students will apply the tools of fully-dimensioned 2D drawings using computer aided drafting software for construction of engineering drawing of simple geometry.
Project Based Learning (Sem-II)	
C113.1	Project based learning will escalate learning capability of students through shared cognition.
C113.2	Students will apply the project idea to several disciplines.
C113.3	Learning by doing approach in Project based learning will promote long-term retention of material and replicable skill, as well as improve teachers' and students' attitudes towards learning.
Workshop (Sem-I)	
C106.1	Students will apply the machine tools, implementation and functions at various levels.
C106.2	Students will analyze drawing methods of skill through hands-on practices using hand tools, power tools, machine tools in manufacturing and assembly shop leading to understanding of a production processes.
C106.3	Students will apply and select the appropriate tools required for specific operation as welding practices.
C106.4	Students will apply and select the knowledge of job/ work piece materials at various shops.
C106.5	Students will analyze the requirement and development of the safety measures needs to be taken while using the tools at various sections
C106.6	Students will apply the tools of understand applications of close fitting and its implementation at various assembly lines.

Instructions for First Year Engineering Students

1. Attendance of students in all subjects will be monitored strictly. Absentee will be communicated to the parents on the same day.

2. Student should report to their theory and lab classes on time. Late comers will not be permitted by any faculty or lab assistant.

3. Students should get their Practical journals checked by the respective batch in-charge in time.

4. It is compulsory to submit assignments in time.

5. Students should wear College Uniform for all days except Wednesday.

6. All the students should wear their ID around their neck as long as they are inside the college campus.

7. Class tests, Unit tests and Prelim exam are the part of curriculum. These tests are mandatory for students, as it will help in the preparation of University Exam. Students should not indulge in any kind of malpractice during examinations or tests.

8. Students should switch off lights and fan, when not in use.

9. Students are expected to take care of the college property and help in keeping the premises neat and clean. Disfiguring of walls, doors or breaking the furniture is a breach of discipline and will not be tolerated.

10. Ragging in any form inside or outside the college campus and hostel is banned. Anti – Ragging committee is formed to help FE students.

Academic Results

An Insight to last year SPPU FE (2021-22) Result.....

LIST OF FE10 TOPPERS

Rank	Name	SGPA
1	Shweta Mandal	9.93
	Atharv Gupta	9.93
	Aman Jee	9.93
2	Swati	9.91
	Pranjal Ganesh Bharat	9.91
3	Amruta Wani	9.89
	Dipak Balu Vyavahare	9.89
4	Prabhat Akhoon	9.86
5	Sahil Patil	9.84
	Sanika Pariyal	9.84
	Abhishek Mahajan	9.84
6	Rushikesh Fegade	9.8
7	Sujay Shraunik	9.77
	Kanhaiya Padol	9.77
8	Prathamesh Nigade	9.75
9	Aryan Tomar	9.73
	Abhishek Kulkarni	9.73
	Kunal Patel	9.73
	Aditya Rajesh Padekar	9.73
10	Ayush Chandrakant Patil	9.7
	Shubham Phalke	9.7

"Hard Work +Dedication + Consistency = Success"

FE Students Achievements

Academic Year	Achievement	Photo
2021-22	Ms. Anchal Khadse, Mr. Tejas Jadhav, Mr. Jayesh Sandane, Mr. Girish Valvi, Mr. Vinay Bidwe and Mr. Rudra Phadtare, won second prize in SPPU's intercollegiate Roll Ball Competition on 5th March 2022.	
2021-22	Mr. Tilak Jayant Jadhav is representing Maharashtra Cricket Team under BCCI since 2017	
2020-21	Ms. Vaishnavi Kulkarni was the Runner up of Maharashtra team in 4th National Roll Ball competition held in 2021 which was conducted by National Games Authority, Pune	
2019-20	Shrishail Nimankar, Astha Jain, Sameer Bhuvaji, Vaibhav Talekar and Yashraj Wani -The FE team from DYPCOE won 2nd Prize Barkleys Tech Innovation Challenge 2019.	
2019-20	FE Team - Varun Verma, Pratham Ingole and Sourav Mandhane has stood 1st Prizeand has won a price of Rs. 30000/-in event Maze Decoder (RSL) under TANTROTSAV 2K20	

2019-20	Mr. Prathis Upadhyay has successfully secured Campus Ambassador Internship at E-CELL IIT Roorkee through Internshala .	

Head of the Departments

Sr. No	Department	Name of H.O.D. / Section In charge
1	Electronics and Telecomm. Engg.	Dr. Rutuja Deshmukh
2	Mechanical Engineering	Dr. Pravin T. Nitnaware
3	Computer Engineering	Dr. Madhuri Potey
4	Information Technology	Dr. Preeti Patil
5	Robotics and Automation	Dr. Nitin K. Kamble
6	Civil Engineering	Dr. Ashok B. More
7	Instrumentation and Control Engg.	Dr. Bhausaheb B. Musmade
8	Dean Research and Development	Dr. Sandip M. Shiyekar
9	Chief Examination Officer	Dr. Dilip G. Khairnar
11	HOD- First Year Engineering Dept.	Dr. Sanjay K. Babar
12	Dean - Campus Placement	Mrs. Jasmita Kaur
13	Workshop	Dr. Yogesh Kamble
14	Librarian	Mr. Avinash Lande

Subject In Charges of First Year Subjects

Sr.No.	Subject	Subject in charge
1	Engineering Mathematics	Mr. Ganesh Gosavi
2	Engineering Chemistry	Dr. Pranjali Shinde
3	Engineering Physics	Dr. Mohan A Sutar
4	Basic Electrical Engineering	Mrs. Komal A. Desai
5	Engineering Mechanics	Mrs. Savita V. Jatti
6	Systems in Mechanical Engineering	Dr. Prashant Chougale

7	Programming and Problem Solving	Mrs. Swati Suryawanshi
8	Basic Electronics Engineering	Mrs. Meena. M. Karad

Administrative Staff

Sr.No.	Designation	Name of the office staff
1	Registrar	Mr. Prashant N. Bhalerao
2	Student Section	Mr. Sandip Salunkhe (Student related matter) Mr. Prakash Wadkar (Scholarship Section)
3	Establishment Section	Mr. Avinash Thorat Ms. Surekha Khandale
4	Account Section	Mrs. Pallavi Malpathak, Mr. Santosh Thorat Mr. Raju Shikalgar, Mrs. Sonali Thorat
5	Store	Mr. S.C. Sharma, Mr. Mahesh More
6	Medical Officer	Dr. Sheetal Pandit Bedis Timing : 10 am to 12 noon in College 6 pm to 8 pm in Girls Hostel
7	Girls Hostel Incharges	Dr. Manisha Tanwar (DYPCOE) Mrs. Hnnie Williams (DYPCOE)
8	Rectors (DYP Girls hostel)	Ms. Rani Kamble Mrs. Sheetal Sakate Mrs. Trupti Karale

Sr. No.	Designation	Name of the office staff
1	Behavioral Counselor and Soft Skill Trainer	Ms. Shruti Seth 9309516779
2	Physical Director	Mr. Abaji Mane 9767063728

"Success is not final;

Failure is not fatal;

It is the courage to continue that counts.

" — Winston S. Churchill

List of Class Teachers For First Year Engineering

Academic Coordinators

Group I – Mr. Sunil Payghan

Group II – Dr. Manisha Tanwer

Division	Name of Class Teacher
A	Mrs. Swati Jadhav
B	Mr. Somnath Nyakawadi
C	Mrs. Sabrina Kazi
D	Mrs. Savita Jatti
E	Ms. Neeta Katariya
F	Mr. Sagar Wangdare
G	Mr. Amit Uphad
H	Mr. Ramesh Sul
I	Mrs. Deepali Dubal
J	Mr. Santosh Damkondwar
K	Dr. Pranjali Shinde
L	Mrs. Hnnie Williams
M	Mr. Ganesh Gosavi
N	Mrs. Vrushali Patil

"A Teacher is a compass that activates

the magnets of curiosity, knowledge and wisdom in the pupils."
-Ever Garrison

Teacher Guardian Scheme

In DYPCOE, Akurdi Students from various states of our country has taken admission for UG Engineering course. For taking care of newly admitted students, Institute has a *Teacher Guardian (TG) scheme* under which a group of 20-23 students have a particular teacher who monitors the academic performance as well as well-being of the students. TG keeps the track of every student's day-to-day activities, record their attendance, internal examination results and other related information in the specially designed Teacher Guardian Booklet. TG encourages the students to participate in co-curricular & extracurricular activities. TG gives academic feedback of the student to their parents/guardians regularly. TG also counsels the students to solve difficulties encountered not only in college campus but in their personal lives too. Teacher guardian acts as a mentor to students and offers them emotional and academic support along with motivation.

Highlights of the Scheme :

- One teacher is nominated as 'Teacher Guardian' for a group of 20-23 students.
- Teacher Guardian maintains all records of students in T.G. booklet.
- Teacher guardian closely monitors attendance and academic performance of students.
- Teacher guardian sends letters regarding performance and attendance to parents whenever required.
- Teacher guardian does counseling about studies and help students to solve their personal problems.
- Helping students to overcome home sickness.
- Teacher guardian acts as mediator between college and parents.

- TG counsel students in regular interval for improving his/her academic performance. Also TG encourages and guide students for taking part in various co-curricular and extracurricular activities, which helps them in personality development.
- If required, mentees will be taken to counselor for the special counseling.

A Teacher is like a Candle – it Consumes itself to Light the way for Others

List of Text books used for First Year Engineering Sem I and II.

Sr No	Name of Subject	Title of Book	Author	Publication
1	Engineering Mathematics -I	Engineering Mathematics -I	Dr. M.Y .Gokhale Dr. N.S. Mujumdar	Nirali
		Engineering Mathematics -I	Mr. A. R Tambe Dr. Vanita Daddi	Technical
2	Engineering Physics	Engineering Physics	H. J. Sawant, Dr. S.V. Arlikar, Dr. S. K. Babar, V. P. Waghe, S. N. Shukla, S. S. Joshi	Technical
		Engineering Physics	Dr. S. G. Kandalkar, Dr. U. P. Moharil, I.A. Shaikh	Nirali
		Engineering Physics	Avadhanulu, Kshirsagar	S. Chand
		A textbook of optics	N Subrahmanyam and BrijLal	S. Chand
		Engineering Physics	Gaur, Gupta	Dhanpat Rai and Sons
3	Engineering Chemistry	Engineering Chemistry	Prof V. K Walekar, Dr. D .V. Nighot, Dr. Beena Nawghare, Suvarna R. Madura, Dr. Manisha Tanwer, Ramesh D Sul	Tech-Neo
			Mr. RameshSul, Mr. Santosh Damkondwar, Dr. ManishaTanwer, Dr. Pranajali Shinde, Mrs. Deepali Dubal	Nirali
	Basic Electrical Engineering	Basic Electrical Engineering	R. A. Barapate, Ekta Mishra, Ganesh H. Patil, Hnnie Williams, V.V. Sangamnerkar, H.R Shirke	Tech-Neo
4			U.A. Bakshi, D.A .Bhagwat, S.L Mhetre, Dr. M.G Unde , Dr. M.R. Tarambale	Technical
5	Engineerin	Vector	F. P. Beer and E. R. Johnson	McGraw-Hill

	g Mechanics	Mechanics for Engineers		
		Engineering Mechanics	R. C. Hibbeler	Pearson Education
		Engineering Mechanics	S. P. Timoshenko and D. H. Young,	McGraw- Hill
		Engineering Mechanics	J. L. Meriam and Craige,	John Willey
		Engineering Mechanics	F L Singer	Harper and Rowe
6	Programming and Problem Solving	Python Programming Using Problem Solving Approach	Reema Theraja	Oxford University Press, ISBN 13: 978-0-19-948017-6
		Core Python Programming	R. Nageswara Rao	Dreamtech Press; Second edition ISBN-10: 938605230X, ISBN-13: 978-9386052308 ASIN: B07BFSR3LL
7	Basic Mechanical Engineering	Engineering Thermodynamics	Nag, P. K	Tata McGraw-Hill Publisher Co. Ltd
		Elements of Workshop Technology Volume I and II	Chaudhari and Hajra	Media Promoters and Publishers, Mumbai
		Basics of Mechanical Engineering	Agrawal, Basant and Agrawa	John Wiley and Sons, USA
		Basic Mechanical Engineering	Rajput, R.K	Laxmi Publications Pvt. Ltd.
		Basic Mechanical Engineering,2nd ed	Pravin Kumar	Pearson (India) Ltd
8	Engineering Mathematics -II	Engineering Mathematics -II	Dr. M.Y .Gokhale Dr. N.S. Mujumdar	Nirali
		Engineering Mathematics -II	Mr. A. R Tambe Dr. Vanita Daddi	Technical
9	Engineering Graphics	Engineering Drawing	Bhatt, N. D. and Panchal, V. M	Charotar Publication,Anand, India
		Engineering and Graphics	K. Venugopal	NewAgeInternational, New Delhi
		Engineering Drawing with introduction to AutoCAD	Jolhe, D. A	Tata McGraw Hill, New Delhi

		A First Course in Engineering Drawing	Rathnam, K	SpringerNature Singapore Ptvt. Ltd., Singapore

Do 's And Don'ts To Be Maintained By Students In College

- As per Supreme Court orders, students involved in **Ragging activities** shall be **liable for punishment** such as lodging FIR with Police, expulsion from the institute.
- Students should maintain **complete silence and decorum** in the college premises, campus, class-room, library, corridors etc. They should help in maintaining the campus spic and span.
- **100 %** attendance in **Theory** and **100% attendance** in **Practical** are necessary for effective learning and to excel in university examination.
- They should cultivate reading habits and look for important information & instructions daily, on the notice board.
- Students, during **free time should not loiter** here and there, but should usefully engage themselves by **utilizing library reading- room facility**. Students should not visit the hostel during college hours.
- Representation, regarding complaints and grievances, should be made to the Principal, through the respective Class teacher of the student, nominated by the college authorities.
- **All examinations / tests conducted by the college are compulsory**, since these test/ examination is conducted on the pattern of the University Examinations. Absence due to unavoidable reasons must be notified to the Dean Academics in writing, after getting it countersigned by the class teacher. Any student who misses the tests /examinations on medical grounds will be re-examined.
- **Participation in college activities and functions organized by the college is compulsory**. Under unavoidable circumstances, prior permission of the Dean Academics should be taken.
- **Use and possession of mobile phones during any examination is prohibited.**

- Don't get in the habit of skipping classes. **Attending class is a critical component of learning the material and class notes are often a key part of studying for exams.**

"Discipline is the bridge between goals and accomplishment"

Local Area Information

Piṃpri Chinchwad is the extended city limits of Pune, Maharashtra. It is cluster of Automotive, Mechanical, Information Technology & Pharmaceuticals Industry. It is situated at an altitude of 53^0 m above sea level, about 15 km northwest of the historic center of Pune. Pimpri Chinchwad as well as the cantonment areas of Pune Central, Khadki and Dehu Road together form the urban core of the Pune Metropolitan Region. Pimpri Chinchwad has a population of more than 1.72 million residing in an area of 181 km^2. Pimpri Chinchwad is home to a vast variety of industrial establishments and is well known for its automotive and manufacturing industry.

The city experiences three seasons: summer, monsoon and winter. Typical summer months are February to May with maximum temperatures above 35 °C and reaching up to 42 °C on hotter days. The city receives most of its 722 mm of rainfall in the monsoon months of June to September. The temperature in the winter months of October to January ranges from 12 °C (min) to 30 °C (max), with night temperatures often falling below 10 °C.

- **Transport**

Pimpari Chinchwad is well connected by Road, Rail and Air. Public transport modes in Pimpri Chinchwad include Suburban Railway, bus and Rainbow BRTS services operated by PMPML and auto rickshaws. Pune Metro, an urban mass rapid transit system is under construction in the twin cities Online transport network companies like Uber and Ola cabs also provide rideshare and taxi services in the city.

- **Parks, recreation and tourism**

1. Pimpri Chinchwad has public parks such as the park on Durga Tekdi and Bhakti-Shakti park in Nigdi, the Pimpri-Chinchwad Science Park in Chinchwad, and the Boat Club in Thergaon.
2. The city also has a zoo named after Nisargakavi Bahinabai Chaudhari in Chinchwad East Close to the zoo is a lake garden called the Bird Valley because of the water birds like cranes which come migrating here.
3. Appu Ghar is an amusement park located in the Pradhikaran area. There are ten public swimming pools run by PCMC.
4. The Auto Cluster Development and Research Institute located in Chinchwad-Talegaon-Chakan is a facility for providing support to small & medium Enterprises.
5. Pimpri Chinchwad Science Park is a place for science nerds. It is a perfect place to learn, experiment,

Contacts in Case of Medical Emergency

1.	Lokmanya Hospital (Nigdi)	:	+91-9881142101, +91-2030612009 +91-9595844844
2.	Dhanvantari Hospital (Nigdi)	:	(020) 27656950 / 27659527/ 27659506 / 27659710
3.	Ambulance on call: Jeevan Rekha	:	(020) 27659000 / 105
4.	Ojas Hospital (Ravet)	:	(020)27405500, 7385159540, 8888588880
5.	Flora Multi Specialty Hospital	:	07276219050, 7947304272