



Prof.Dr.T.J.Sawant
BE(Elec.), PGDBM, Ph.D
PRESIDENT

The Shetkari Shikshan Mandal **Bhivarabai Sawant College Of Engineering & Research**

Accredited by NAAC With 'A' Grade

(Approved by A.I.C.T.E. & Govt. of Maharashtra Affiliated To Savitribai Phule Pune University

West/1-3669721/2010.New dated 13 Jul 2010.)

S.No. 12/1/2 & 12/2/2, Narhe, Taluka-Haveli, Pune-411041.

Phone : 020-24608500/01 **Website** : www.tssm.edu.in

Email : principal@tssm.edu.in

Dr.G.A.Hinge
Ph.D.LMISH
PRINCIPAL

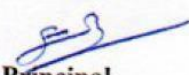
6.1.1 : The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Supporting Documents as per SOP:

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Vision:

To develop globally competent engineers for techno-economic development of society.

Mission:

To provide, nurture and maintain an environment of academic excellence, research and entrepreneurship for aspiring engineers to meet global challenges ethically.

Quality Policy of Institute

We are committed to impart value based quality education to maximize student satisfaction keeping in mind global trends and the needs of the industry in a rapidly changing environment.

Salient features of institutional quality policy are:

1. Student centric teaching-learning process
2. Faculty is encouraged and enabled to upgrade continuously
3. Self-learning and research laboratories.
4. Education is aligned to global needs.
5. College promotes research attitude amongst students and faculty.
6. Sports and cultural activities for all round development
7. Regular interaction with industries to understand their culture and needs.
8. College arranges special programs for needy students.
9. College strives to empower creativity through technical excellence.




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Governing Body

Sr. No.	Name	Association	Designation
1	Prof. Dr. T. J. Sawant	President – TSSM	Chairman
2	Mr. G. T. Sawant	Secretary – TSSM	Member
3	Prof. Dr. R. S. Joshi	Director JSPM – Pune	Member
4	Prof. S. R. Thite	Director TSSM – Pune	Member
5	Dr. Ajeet Singh	Director WRO – AICTE Western Region	Member
6	Dr. D. V. Jadhao	Director, DTE, RO Maharashtra State	Member
7	Dr. Y. P. Nerkar	Nominee of Savitribai Phule Pune University	Member
8	Mr. Shahid Usmani	Deputy Secretary, MSBTE, RO, Pune	Member
9	Dr. K. N. Barbole	Director, KPPF	Member
10	Prof. Dr. G. A. Hinge	Dean, BSCOER	Member Secretary
11	Dr. P. N. Shinde	Professor BSCOER	Member
12	Prof. Dr. S. S. Kande	Principal, Polytechnic BSCOER	Member
13	Prof. A. D. Gujar	Associate Professor, BSCOER	Member



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Objectives, Roles and Responsibilities of Governing Body:

- The Governing Body of the Management Institute has been constituted as per the affiliating university, UGC and ATTE, New Delhi, India.
- The main objective of the Governing body Is to offer transparent and effective governance in building and developing the institution, taking the confidence of stakeholders.
- To approve the mission and strategic vision of the Management Institute.
- To ensure the establishment and monitoring of proper, effective and efficient systems of control and accountability.
- To Monitor Institutional Performance and Quality Assurance Arrangements.
- To put in place suitable arrangements for monitoring the performance of managerial and administrative positions. Openness and transparency in the operation of governing bodies.
- To promote of transparency and openness at every level.
- To pass the resolutions made by the management council viz. Local Management committee/ Management Institute's College Development Committee.
- Take strategic policy decisions related to expansion, recruitment, HR policies related to promotion and appraisal, various policies with respect to academic excellence, research and entrepreneurship are been decided in the Governing body meeting.
- All the major financial transactions are analysed and verified by the governing body under Different heads like research & development, training, library, turn ture. equipment & repair and maintenance.
- The Governing body reviews and approves the proposal and forwards the proposal to the Chairman / Secretary (Management).




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Maharashtra Universities Act 2016

97. (1) There shall be a separate College Development Committee for every Affiliated, autonomous, empowered autonomous college or recognized institution, consisting of the following members, namely:-

- (a) Chairperson of the management or his nominee ex-officio Chairperson;
- (b) Secretary of the management or his nominee;
- (c) One head of department, to be nominated by the principal or the head of the institution;
- (d) Three teachers in the college or recognized institution, elected by the Full-time amongst themselves out of whom at least one shall be women;
- (e) One non-teaching employee, elected by regular non-teaching staff from amongst themselves;
- (f) Four local members, nominated by the management in consultation with The principal, from the fields of education, industry, research and social service of whom at least one shall be alumnus;
- (g) Co-coordinator, Internal Quality Assurance Committee of the college;
- (h) President and Secretary of the College Students' Council;
- (i) Principal of the college or head of the institution-Member-Secretary.

(2) For a college or institution managed and maintained by the State Government,

The College Development Committee shall consist of the following members,
Namely:-

- (a) Principal of the college or head of the institution - Chairman.
- (b) Joint Director designated by the Director of Higher Education, ex-officio Member;
- (c) Three teachers in the college or recognized institutions, elected by the Full-time approved teachers from amongst themselves;
- (d) One non-teaching employee, elected by the regular non-teaching staff from amongst themselves;




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- (e) Four local members, nominated by the Director of Higher Education in Consultation with the principal, from the fields of education, industry, research And social service and having minimum post-graduate degree of whom at least One shall be alumnus;
- (f) Co-ordinator, Internal Quality Assurance Committee of the college, Ex-officio;
- (g) President and Secretary of the College Students Council; and College Development Committee.
- (h) One head of department, nominated by the principal or the head of the Institution-Member-Secretary.
- (3) The College Development Committee shall meet at least four times in a year.
- (4) Elected and Nominated members shall have a term of five years from the Date of election or nomination. If any vacancy occurs in the office of such Member, the vacancy shall be filled within three months by the Principal and the Member so appointed shall hold office for the residual term for which the earlier Member shall have held the office if the vacancy had not occurred.
- (5) The College Development Committee shall,-
 - (a) Prepare an overall comprehensive development plan of the college Regarding academic, administrative and infrastructural growth, and Enable College to foster excellence in curricular, co-curricular and extra-curricular activities;
 - (b) Decide about the overall teaching programs or annual calendar of the college;
 - (c) Recommend to the management about introducing new academic courses and the creation of additional teaching and administrative posts;
 - (d) Take review of the self-financing courses in the college, if any, and make Recommendations for their improvement;
 - (e) Make specific recommendations to the management to encourage and Strengthen research culture, consultancy and extension activities in the college;




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- (f) Make specific recommendations to the management to foster academic Collaborations to strengthen teaching and research;
- (g) Make specific recommendations to the management to encourage the use Of information and communication technology in teaching and learning process;
- (h) Make specific recommendations regarding the improvement in teaching And suitable training programs for the employees of the college;
- (i) Prepare the annual financial estimates (budget) and financial statements Of the college or institution and recommend the same to the management for Approval;
- (j) Formulate proposals of new expenditure not provided for in the annual financial estimates (budget);
- (k) Make recommendations regarding the students and employees' welfare Activities in the college or institution;
- (l) Discuss the reports of the Internal Quality Assurance Committee and Make suitable recommendations;
- (m) Frame suitable admissions procedure for different programs by following the statutory norms;
- (n) Plan major annual events in the college, such as annual day, sports events, cultural events, etc.
- (o) Recommend the administration about appropriate steps to be taken regarding the discipline, safety and security issues of the college or institution;
- (p) Consider and make appropriate recommendations on inspection reports, Local inquiry reports, audit report, report of National Assessment and Accreditation Council, etc.;
- (q) Recommend the distribution of different prizes, medals and awards to the Students;
- (r) Prepare the annual report on the work done by committee for the year ending on the 30th June and submit the same to the management of such college and the university;
- (s) Perform such other duties and exercise such other powers as may be entrusted by the management and the university




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College Development Committee

Sr. No.	Name	Designation
1	Prof. Dr. T. J. Sawant President – TSSM	Chairman
2	Mr. G. T. Sawant Secretary – TSSM	Member
3	Prof.N.B.Pokale Head Engineering Science Department, BSCOER	Elected Member
4	Prof. S. R. Thite Associate Professor TSSM – Pune	Elected Member
5	Prof.Dr. S.G.Kanade Associate Professor BSCOER – Pune	Elected Member
6	Prof.N.A.Gore Assistant Professor BSCOER – Pune	Elected Member
7	Mrs.N.S.Sable Administrative Officer,BSCOER	Elected Member
8	Mr.Roshan Maheshwari RGM Construction and Consultancy	Member
9	Prof.Dr.R.D.Kanphade Principal,JSCOE Hadapsar	Member
10	Mr.Kiran More Research Officer ,CW&PRS	Member
11	Mr.Sagar Bhumkar Social Worker Narhe	Member
12	Dr.P.N.Shinde Coordinator IQAC,BSCOER	Member
13	President Student Council,BSCOER	Member
14	Secretary Student Council,BSCOER	Member
15	Prof.Dr.G.A.Hinge Principal,BSCOER	Member Secretary



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- Prepare an overall comprehensive development plan of the Management Institute regarding academic, administrative and infrastructural growth, and Enable Management Institute to foster excellence in curricular, co-curricular and extracurricular activities.
- Decide about the overall teaching programs or annual calendar of the Management Institute.
- Recommend to the management about introducing new academic courses.
- Make specific recommendations to the management to encourage and strengthen research Culture, consultancy and extension activities in the Management Institute.
- Foster academic collaborations to strengthen teaching and research; Make specific recommendations regarding the improvement in teaching and suitable training Programs (or the employees of the Management Institute.
- Prepare the annual financial estimates (budget) and financial statements of the Management Institute.
- Make recommendations regarding the students' and employees' welfare activities in the Management Institute.
- Discuss the reports of the Internal Quality Assurance Committee and make suitable recommendations.
- Plan major annual events in the Management Institute, such as annual day, sports events, cultural events, etc.
- Consider and make appropriate recommendations on inspection reports, local Inquiry reports, audit report, report of National Assessment and Accreditation Council, etc.




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IQAC (Internal Quality Assurance Cell) Committee

Committee	Staff Members
IQAC (Internal Quality Assurance Cell)	Dr. G.A. Hinge (Chairman and Principal) Prof. G.T. Sawant (CDC Member) Dr. A. D. Diwate (IQAC Coordinator) Ms. N.S. Sable (Office Superintendent) Dr. S.G. Kanade (Senior Faculty) Dr. P.M. Bagade (Senior Faculty) Prof. A.D. Gujar (Senior Faculty) Prof. Sudhir Joshi (Senior Faculty) Prof. Rahul Karale (Senior Faculty) Prof. S.B. Patil (Senior Faculty) Ms. Akanksha Mohite (Student Member) Mr. Sahil Bhalerao (Student Member) Mr. Avinash Mahase (Alumni Member) Mr. Sachin Kulkarni (Alumni Member) Mr. Sandeep Nikam Mr. Sandesh Salunkhe Mr. Sagar Bhumkar (Social Worker) Ms. Balasaheb Karad (Industry Member) Mr. Yogesh More, (Industry Member)



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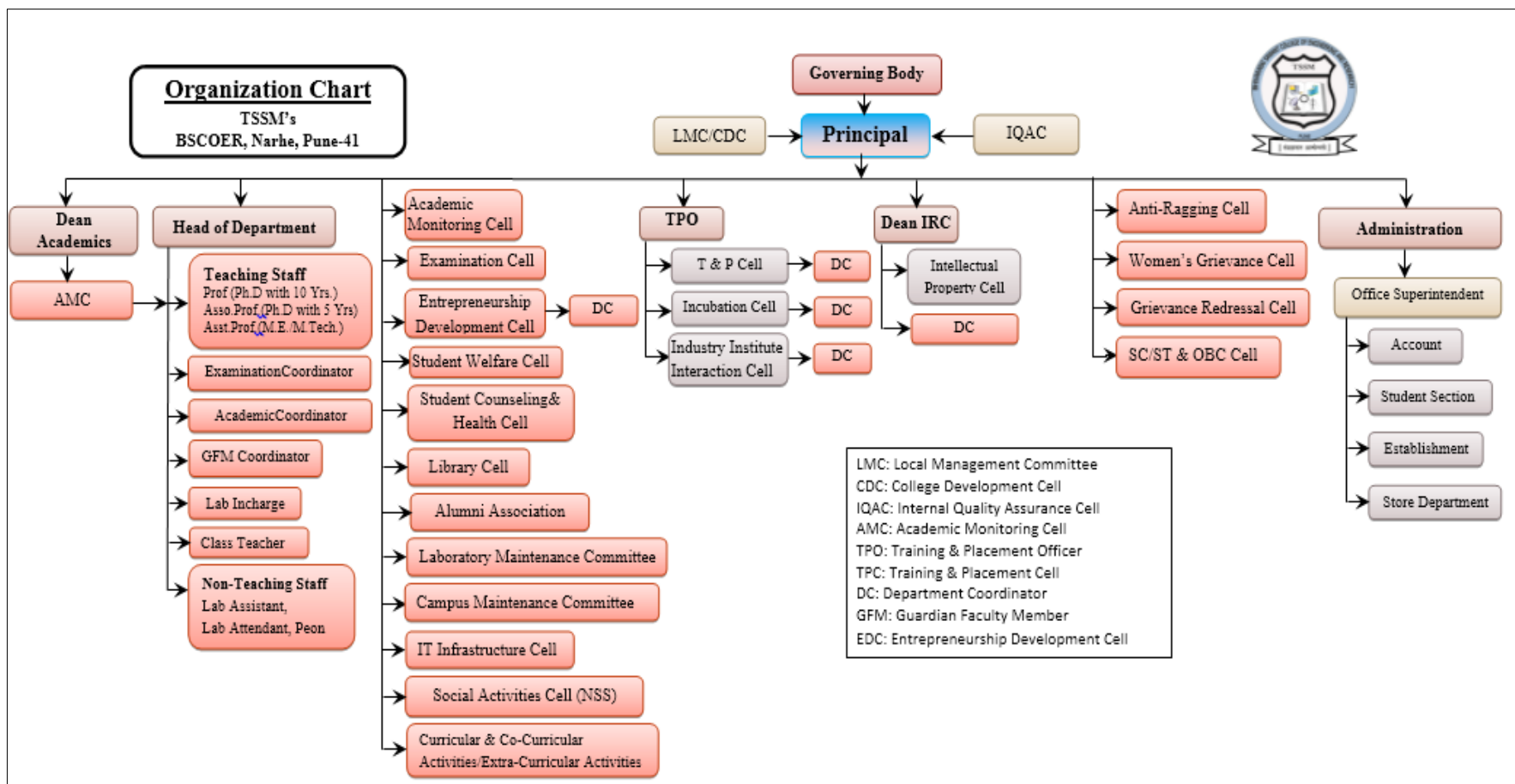
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Roles and Responsibilities of IQAC Committee:

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution
- Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes
- Dissemination of information on various quality parameters of higher education
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles
- Documentation of the various programmes/activities leading to quality improvement
- Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices
- Development and maintenance of institutional database through MIS for the purpose of maintaining/enhancing the institutional quality
- Development of Quality Culture in the institution
- Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC




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Sr.No	Body	Role
1	Principal	The principal leads and manages a College by setting educational goals, ensuring effective teaching and learning, and fostering a positive college culture.
2	Dean Academics	The Dean of Academics oversees academic programs and faculty, ensuring the quality of education, curriculum development, and alignment with institutional goals.
3	AMC	The Internal Quality Assurance Cell (IQAC) ensures the continuous improvement of academic and administrative processes within an institution, promoting quality standards and compliance with accreditation requirements.
4	Head Of Department	he Head of Department manages the department’s operations, oversees faculty and staff, and ensures the delivery of high-quality education and research aligned with institutional goals
5	TPO	The Training and Placement Officer (TPO) coordinates and facilitates training programs and job placement opportunities for students, bridging the gap between academic learning and industry requirements.
6	Dean IRC	The Dean of Institutional Research and Compliance (IRC) oversees the collection and analysis of institutional data, ensuring adherence to research standards and regulatory compliance.
7	Anti ragging Cell	The Anti-Ragging Cell is responsible for preventing, addressing, and managing incidents of ragging within an institution, ensuring a safe and supportive environment for all students.
8	Women grievance cell	he Women Grievance Cell addresses and resolves complaints related to gender-based discrimination and harassment, ensuring a safe and equitable environment for women within the institution.
9	Grievance redressal cell	he Grievance Redressal Cell addresses and resolves complaints and concerns raised by students, staff, or faculty, ensuring fair treatment and improving institutional processes.
10	SC/ST & OBC Cell	The SC/ST & OBC Cell ensures the welfare and equitable treatment of students and staff from Scheduled Castes, Scheduled Tribes, and Other Backward Classes by addressing their specific needs and grievances.
11	Office Superintendent	The Office Superintendent oversees the daily operations of the office, manages administrative tasks, coordinates staff activities, and ensures efficient functioning of office procedures.
12	Teaching Staff	Teaching staff deliver educational content, facilitate student learning, and assess academic progress while contributing to a supportive and engaging classroom environment.
13	Examination co-ordinator	The Examination Coordinator manages the scheduling, administration, and integrity of examinations, ensuring smooth and fair assessment processes within the institution.
14	Academic coordinator	The Academic Coordinator manages curriculum implementation, supports faculty development, and ensures alignment between educational goals and academic programs.
15	GFM Coordinator	The Guardian Faculty Member (GFM) provides academic guidance, support, and mentorship to students, helping them navigate their educational journey and addressing their personal and academic needs.
16	Lab In charge	The Lab In-Charge manages laboratory operations, ensures the proper

		functioning and maintenance of equipment, and oversees safety protocols and inventory for effective lab use.
17	Class Teacher	The Class Teacher instructs and supports students in their academic and personal development, manages classroom activities, and communicates with parents to foster a positive learning environment.
18	Lab Assistant	The Lab Assistant supports laboratory operations by preparing materials, assisting with experiments, maintaining equipment, and ensuring a safe and organized workspace.
19	Examination cell	The Examination Cell organizes and manages all aspects of the examination process, including scheduling, administration, and evaluation, to ensure a fair and efficient assessment system.
20	Entrepreneurships development cell	The Entrepreneurship Development Cell fosters innovation and supports aspiring entrepreneurs by providing resources, mentorship, and training to develop and launch successful business ventures.
21	Student welfare cell	The Student Welfare Cell addresses and supports students' personal, academic, and social needs, ensuring their overall well-being and enhancing their campus experience.
22	Student counseling and health cell	The Student Counseling and Health Cell provides psychological support and health services to students, addressing their mental well-being and physical health needs to ensure a balanced and healthy campus life.
23	Library cell	The Library Cell manages library resources, services, and facilities, ensuring access to a comprehensive collection of materials and supporting students and faculty in their research and learning needs.
24	Alumni Cell	The Alumni Cell fosters ongoing relationships with former students, coordinating events, networking opportunities, and support services to engage and benefit the alumni community.
25	Laboratory maintenance committee	The Laboratory Maintenance Committee oversees the upkeep and repair of laboratory equipment, ensures compliance with safety standards, and manages the maintenance schedule to ensure optimal lab functionality.
26	Social activity cell NSS	The Social Activity Cell of the National Service Scheme (NSS) organizes and coordinates community service and outreach programs, promoting social responsibility and engagement among students.
27	curricular and co-curricular activity	Curricular and co-curricular activities enhance student learning and development by integrating academic instruction with extracurricular opportunities that foster skills, interests, and personal growth.





सावित्रीबाई फुले पुणे विद्यापीठ

गणेशखिंड, पुणे - ४११००७

Savitribai Phule Pune University

Ganeshkhind, Pune - 411007



श्र्वानंज्याचा अमृत महोत्सव

दूरध्वनी क्रमांक : ०२०- २५६२११५६/५७/७९

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शैक्षणिक विभाग (मान्यता कक्ष)

Academic Section (Approval Cell)

वेबसाइट/ Website: www.unipune.ac.in

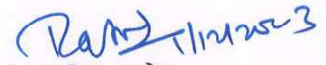
सुधारित परिपत्रक क्र. २९८/२०२३

विषय :- विज्ञान व तंत्रज्ञान विद्याशाखेंतर्गत विद्यापीठातील शैक्षणिक विभाग व संलग्न महाविद्यालयांकरिता पदव्युत्तर पदवीच्या मूल्यांकन पध्दतीच्या नियमांबाबत

विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार सर्व संबंधितांस या परिपत्रकाद्वारे कळविण्यात येते की, विज्ञान व तंत्रज्ञान विद्याशाखेंतर्गत विद्यापीठातील शैक्षणिक विभाग व संलग्न महाविद्यालयांकरिता राष्ट्रीय शैक्षणिक धोरण, २०२० प्रमाणे लागू केलेल्या पदव्युत्तर पदवी अभ्यासक्रम मूल्यांकन पध्दतीच्या नियमांस शैक्षणिक वर्ष २०२३-२४ पासून मान्यता देण्यात येत आहे.

मा. विभागप्रमुख/मा. प्राचार्य, विद्यापीठातील सर्व शैक्षणिक विभाग/सर्व संलग्न महाविद्यालये यांना विनंती की, सदर परिपत्रकाचा आशय सर्व संबंधितांच्या निदर्शनास आणून द्यावा.

गणेशखिंड, पुणे — ४११००७)
जावक क्र. सीबीएस/१२८९)
दिनांक : ०४/१२/२०२३)


(डॉ. मुंजाजी रासवे)
उपकुलसचिव

टिप : दि. १९/१०/२०२३ रोजीचे परिपत्रक क्र. २४२/२०२३ रद्द समजण्यात यावे.

प्रत माहितीसाठी व पुढील योग्य त्या कार्यवाहीसाठी:-

१. मा. अधिष्ठाता, विज्ञान व तंत्रज्ञान विद्याशाखा, प्रस्तुत विद्यापीठ
२. मा. संचालक, परीक्षा व मूल्यमापन मंडळ, प्रस्तुत विद्यापीठ
३. मा. विभागप्रमुख, सर्व शैक्षणिक विभाग, प्रस्तुत विद्यापीठ
४. मा. प्राचार्य, सर्व संबंधित संलग्न महाविद्यालये

संदर्भ : व्ही.सी. टिपणी क्र.: ४७०२, दि. १८ ऑक्टोबर, २०२३

Savitribai Phule Pune University

RULES AND REGULATIONS

for

Implementation of National Education Policy -2020 to

Post Graduate in Science Programme

For Campus Departments and Affiliated Colleges

Under Faculty of Science and Technology

Effective from June 2023


Prof. (Dr.) S. D. Dhole
Director, IQAC, SPPU, Pune
UG/PG Rule & Regulation committee,
SPPU, Pune


Prof. (Dr.) M.G. Chaskar
Dean,
Faculty of Science & Technology
SPPU, Pune

1. Introduction:

Education plays enormously significant role in building of a nation. There are quite a large number of educational institutions, engaged in imparting education in our country. Majority of them have entered recently into semester system to match with international educational pattern. However, our present education system is churning out youth who have to compete locally, regionally, nationally as well as globally. The present alarming situation necessitates transformation and/or redesigning of system, not only by introducing innovations but developing “learner-centric approach.

The Government of India announced the National Education Policy-2020 in July 2020. National Education Policy, 2020 (NEP) envisions a massive transformation in education through– “an education system rooted in Indian ethos that contributes directly to transforming India, that is Bharat, sustainably into an equitable and vibrant knowledge society, by providing high quality education to all, thereby making India a global knowledge superpower.” The NEP 2020 is founded on the five guiding pillars of Access, Equity, Quality, Affordability and Accountability. It will prepare our youth to meet the diverse national and global challenges of the present and the future. A substantial part of the policy document is devoted to higher education, with emphasis on multidisciplinary approach, faculty and institutional autonomy, governance reforms, enhancing access through credit mobility, open and digital learning environment, and skills development.

The NEP provides flexibility to students in terms of choice of subjects to study and academic pathways. The NEP 2020 also states that there will be multiple entry and exit points in the academic programmes offered at Higher Education Institutions (HEIs) with the aim of removing rigid boundaries and create new possibilities for students to choose and learn the subject(s) of their choice. This will also pave the way for students to have seamless mobility within or across the HEIs through formal system of credit recognition and transfer.

1.1 Preface

In a bid to fine tune our scientific education system to the global standards & practices, the NEP – 2020 has been implemented with effect from June 2023 for all the Post Graduate Programmes (PG) of affiliated colleges under the Faculty of Science, Savitribai Phule Pune University, Pune, starting with First Year. With the advent of frontier science, technology and ever-changing expectations from the Industry and Society, it has become imperative to relook at the structure and subject contents of various PG courses to make it contemporary and relevant.

As per the decision by the authorities of Savitribai Phule Pune University, the faculty of Science has prepared the Credit Framework. The revised credit structure is of 88 credits and each semester is of 22 credits. The new credit structure includes research component of almost 14 credit including research methodology course in the first semester. Assessments in credit system consist of A) In-semester continuous assessment and B) End-semester assessment for the Theory head and Term Work/ Practical / Oral / Presentation at the end of the semester for Practical, Oral, Seminar and Project Head.

The faculty of Science has shouldered the idea of incorporating latest advances in Science and technology and equips the subject/syllabus contents with latest and relevant topics and know-hows. Accordingly, the new structure and syllabi are being introduced, to be implemented from the academic year 2023-24 from First Year and it will continue for

subsequent years. The rules governing the programmes shall be as given below with suffix R, followed by the rule number.

- R.1. All PG programmes, under Faculty of Science shall be offered with the given credit structure under the NEP-2020.
- R.2. All the M.Sc programmes running under the Faculty of Science will be of two years (four semester) duration.
- R.3. The M.Sc. degree will be awarded to students who complete a total of 88 credits in a minimum of two years by completing on an average 22 credits per semester.
- R.4. Each theory credit is equivalent to 15 clock hours of teaching and Each practical credit is equivalent to 30 clock hours of teaching in a semester
- R.5. Final CGPA will be calculated on the basis of 88 credits.
- R.6. There is 15 weeks teaching during each semester.
- R.7. Except practical credits wherever applicable, students may be allowed to complete less courses per semester on a condition they complete the two-year degree course in a maximum of four years and a three-year degree course in a maximum of five years. This facility will be available subject to the availability of concerned courses in a given semester and with a maximum variation of 25 per cent credits (in case of fresh credits) per semester.
- R.8. The credit framework includes major core and major elective course. Major core are the courses which are common to all and college has to provide option for the major elective.

1.2 Advantages of the NEP – 2020 :

- 1. Shift in focus from the teacher-centric to student-centric education.
- 2. Student may undertake as many credits as they can cope with (without repeating all courses in a given semester if they fail in one/more courses).
- 3. NEP allows student to complete on On Job Training as part of curriculum.
- 4. Research is a major component in the NEP, student has to complete 10 credit in the research component.
- 5. NEP has given option to choose elective in each semester.
- 6. NEP allows to take exit after one year with PG diploma degree.
- 7. Students who will complete the four year of under graduate programme can join to the second year of post-graduation.
- 8. NEP introduces a concept of Major subject is the subject of main focus of the degree and degree will be awarded in that subject.
- 9. Students are allowed to take admission in the same major for post graduation in which he/ she completed under graduation.

1.3 Implementation of PG course structure:

- 1. For the purpose of computation of work-load the following mechanism may be adopted as per UGC guidelines:
 - i) 1 Credit = 1 Theory period of one hour duration per week
 - iii) 1 Credit = 1 Practical period of two hour duration per week
- 2. Each theory Lecture time is of 1 hour = 60 min
- 3. Exam pattern: University assessment 70 % and continuous internal assessment 30%.


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2. PG Programme Structure:

2.1 Each M.Sc. programme is of 2 years duration. The minimum total no. of credits requirement for each programme is 88. In the structure, the credits are distributed over 4 semesters. The open elective included in each semester, gives the student a wide choice of subjects from other programmes. The Credit structure for M.Sc. programme is given below in Table 1.

Table 1 :Credit Framework for Post Graduate (PG)

Level	Semester	Credits Related to Major		Research Methodology (RM)	Internship On Job Training (OJT)	Research Project (RP)	Total
		Major Core	Major Elective				
6.0	I	10(T) + 4(P)	2 (T) + 2 (T/P)	4	0	0	22
	II	10(T) + 4(P)	2 (T) + 2 (T/P)	0	4 (OJT)	0	22
Exit option: Award PG Diploma on completion of 44 Credits after Three Year UG Degree OR continue with PG second year							
6.5	III	10 (T) + 4 (P)	2 (T) + 2 (T/P)	0	0	4	22
	IV	8 (T) + 4 (P)	2 (T) + 2 (T/P)	0	0	6	22
Total		54	16	4	4	10	88
2 Years-4 Sem. Award PG Degree on completion 88 credits after Three Year UG Degree or 1 Year-2 Sem PG Degree (44 credits) after Four Year UG Degree							

Abbreviation: T – Theory, P – Practical

Table 2: Structure for Postgraduate Science Programme

Sr. No.	Course Code	Course Category	Theory/ practical	Credit
Semester – 1				
1	SUBJECTCODE-501-MJ	Major Core	Theory	4
2	SUBJECTCODE-502-MJ	Major Core	Theory	4
3	SUBJECTCODE-503-MJ	Major Core	Theory	2
4	SUBJECTCODE-504-MJP	Major Core	Practical	4
5	SUBJECTCODE-510-MJ	Major Elective	Theory	2
6	SUBJECTCODE-511-MJP	Major Elective	Practical	2
7	SUBJECTCODE-541-RM	Research Methodology	Theory / Practical	4
Semester – 2				
1	SUBJECTCODE-551-MJ	Major Core	Theory	4
2	SUBJECTCODE-552-MJ	Major Core	Theory	4
3	SUBJECTCODE-553-MJ	Major Core	Theory	2
4	SUBJECTCODE-554-MJP	Major Core	Practical	4
5	SUBJECTCODE-560-MJ	Major Elective	Theory	2

6	SUBJECTCODE-561-MJP	Major Elective	Theory / Practical	2
7	SUBJECTCODE-581-OJT	On Job Training	Practical	4
Semester – 3				
1	SUBJECTCODE-601-MJ	Major Core	Theory	4
2	SUBJECTCODE-602-MJ	Major Core	Theory	4
3	SUBJECTCODE-603-MJ	Major Core	Theory	2
4	SUBJECTCODE-604-MJP	Major Core	Practical	4
5	SUBJECTCODE-610-MJ	Major Elective	Theory	2
6	SUBJECTCODE-611-MJP	Major Elective	Theory / Practical	2
7	SUBJECTCODE-631-RP	Research Project	Theory	4
Semester – 4				
1	SUBJECTCODE-651-MJ	Major Core	Theory	4
2	SUBJECTCODE-652-MJ	Major Core	Theory	4
4	SUBJECTCODE-654-MJP	Major Core	Practical	4
5	SUBJECTCODE-660-MJ	Major Elective	Theory	2
6	SUBJECTCODE-661-MJP	Major Elective	Theory / Practical	2
7	SUBJECTCODE-681-RP	Research Project	Theory	6

Note: i) Each credit will be equivalent to 15 clock hours of teaching

iii) Credit: A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (theory) or two hours of practical work/field work per week.

iv) Refer detailed rules and regulations in the government resolution reference number NEP-2022/Pr.Kr.09/Vi.Shi.3 Shi.ka.na. dated 16 May 2023.

v) Major subject is the subject of main focus of the degree and degree will be awarded in that subject.

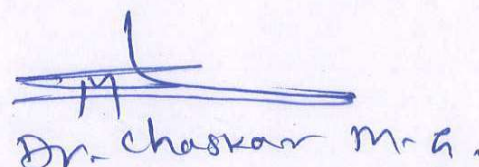
vi) Major core are the courses which includes the main content of the major subject while major elective are the course which will be chosen as the students choice

vii) Use major's subject code at the place of 'SUBJECTCODE' in code shown above.
The details of the subject code and abbreviation are given in the annexure – I

3. Eligibility for Admission:

- Eligibility to take admission for first year of M.Sc. program in the major subject is that the student has completed three-year bachelor degree in the same major.


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- Eligibility to take direct admission to second year M.Sc. program in the major subject is that the student has completed four year honour degree in the same major.
- Admissions will be given as per the selection procedure / policies adopted by the respective college keeping in accordance with conditions laid down by the Savitribai Phule Pune University of Pune.
- Reservation and relaxation will be as per the Government rules.

3.2 Medium of Instruction: English

3.3 Award of Credits:

- Each course having 4 credits shall be evaluated out of 100 marks and student should secure at least 40 marks (40%) to earn full credits of that course.
- Each course having 2 credits shall be evaluated out of 50 marks and student should secure at least 20 marks (40%) to earn full credits of that course.
- GPA shall be calculated based on the marks obtained in the respective subject provided that student should have obtained credits for that course. Structure of marks scheme for NEP credit system program is given in Table 3.

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Table 3: Structure of Examination Mark Scheme for Postgraduate Science Programme under NEP-2020. The below example considers Physics as a Major subject

Semester	Course Name	Course Title	Credit	Maximum Internal Marks	Maximum External Marks
I	PHY-501-MJ		4	30	70
	PHY-502-MJ		4	30	70
	PHY-503-MJ		2	15	35
	PHY-504-MJP		4	30	70
	PHY-510-MJ		2	15	35
	PHY-511-MJP		2	15	35
	PHY-541-RM		4	30	70
II	PHY-551-MJ		4	30	70
	PHY-552-MJ		4	30	70
	PHY-553-MJ		2	15	35
	PHY-554-MJP		4	30	70
	PHY-560-MJ		2	15	35
	PHY-561-MJP		2	15	35
	PHY-581-RM		4	30	70
III	PHY-601-MJ		4	30	70
	PHY-602-MJ		4	30	70
	PHY-603-MJ		2	15	35
	PHY-604-MJP		4	30	70
	PHY-610-MJ		2	15	35
	PHY-611-MJP		2	15	35
	PHY-631-RP		4	30	70
IV	PHY-651-MJ		4	30	70
	PHY-652-MJ		4	30	70
	PHY-653-MJ		2	15	35
	PHY-654-MJP		4	30	70
	PHY-660-MJ		2	15	35
	PHY-661-MJP		2	15	35
	PHY-681-RM		4	30	70

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4. Evaluation Pattern:

Examination Rules

- 4.1 A student cannot appear for semester end examination unless he/she has maintained 75% attendance during the teaching period of that course. If a student fails to maintain attendance up to 75%, at the time of filling of examination forms, an undertaking from the student should be taken stating that he/she will be allowed to appear for examination subject to fulfillment of required attendance criteria during the remaining period of teaching of the course.
- 4.2 Each course carrying 100 marks shall be evaluated with Continuous Assessment (CA) and University Evaluation (UE) mechanism.
- 4.3 Continuous assessment shall be of 30 marks (30%) while University Evaluation shall be of 70 marks (70%). To pass in a course, a student has to secure minimum 40 marks (40%) provided that he should secure minimum 28 marks (40%) in University Evaluation (UE) and 12 marks (40%) in continuous assessment.
- 4.4 Each credit will have an internal (continuous) assessment of 30% of marks and a teacher must select a variety of procedures for examination such as:
 - a) Written Test and/or Mid Term Test (not more than one for each course)
 - b) Term Paper;
 - c) Viva-voce,
 - d) Projects / Surveys / Field visits,
 - e) Tutorials,
 - f) Group Discussion
 - g) Journal/Lecture/Library notes;
 - h) Seminar presentation;
 - i) Short Quizzes;
 - j) Assignments;
 - k) Extension Work;
 - l) Research Project by individual students or group of students; or
 - m) An Open Book Test (with the concerned teacher deciding what books are to be allowed for this purpose.)etc (on approval of the head of the centre)
- 4.5 If a student misses an internal assessment examination, he/she will have a second chance with the permission of the teacher concerned. Such a second chance shall not be the right of the student; it will be the discretion of the teacher concerned to give or not to give second chance to a student to appear for internal assessment.
- 4.6 The research project course will be evaluated on the basis of viva voce conducted at the end of semester. A separate mechanism will be declared to evaluate the research project which will include the weightage to publication in journal or presentation in conference.
- 4.7 Students who have failed semester-end exam may reappear for the semester-end exam in the subsequent period. The student will be finally declared as failed if he/she does not pass in all credits within a total period of four years in case of two year courses and five years in case of three year courses. After that, such students will have to seek fresh admission as per the admission rules prevailing at that time.


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- 4.8 Internal marks will not change. A student cannot repeat internal assessment. In case he/she wants to reappear for the internal assessment he/she can do so only by registering for the said courses during the semesters in which the courses are being conducted.
- 4.9 There shall be revaluation of the answer scripts of semester-end examination of theory papers only but not of internal assessment papers as per Ordinance no 134 A and B.
- 4.10 While marks will be given for all examinations, they will be converted into grades. The semester end and final grade sheets and transcripts will have only grades and grade points average.
- 4.11 Except for the technology faculty, in subjects or departments where project work is part of the credits, the project will consist of not more than ten percent of the total credits for the degree course.

5. ATKT Rules:

- 5.1 Minimum number of credits required to take admission to Second Year: 22 [50% of total credit in first year]
- 5.2 A student cannot register for the third semester, if he/she fails to complete 50% credits of the total credits expected to be ordinarily completed within two semesters. In this case, a student can seek admission to first or second semester in order to complete the requisite number of credits and to be able to seek admission in the third semester.

10. Completion of Degree Course:

- 6.1 A student, who earns 88 credits, shall be considered to have completed the requirements of the M. Sc. degree program and CGPA will be calculated for such student.
- 6.2 The following percentage to grade and grade point is given in Table-4 and respected example of CGPA calculated is given in Table-5.

Table - 4 : Percentage to Grades and Grade Points

Sr. No.	Grade Letter	Grade Point	Marks
1	O (Outstanding)	10	$90 \leq \text{Marks} \leq 100$
2	A+ (Excellent)	9	$75 \leq \text{Marks} \leq 89$
3	A (Very Good)	8	$60 \leq \text{Marks} \leq 74$
4	B+ (Good)	7	$55 \leq \text{Marks} \leq 59$
5	B (Above Average)	6	$50 \leq \text{Marks} \leq 54$
6	C (Average)	5	$45 \leq \text{Marks} \leq 49$
7	D (Pass)	4	$40 \leq \text{Marks} \leq 44$
8	F (Fail)	0	Marks < 40
9	Ab (Absent)	0	

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Table 5 : Structure of CGPA and Mark Scheme of Choice Based Credit System for Postgraduate Science Programme (An Example)

Semester	Course Name	Course Title	Credit	Maximum Internal Marks	Maximum External Marks	Grade Letter (F-O)	Grade point (0 - 10)	Credit Point = (Credit x Grade point)
I	PHY-501-MJ		4	30	70	A	8	32
	PHY-502-MJ		4	30	70	O	10	40
	PHY-503-MJ		2	15	35	A+	9	18
	PHY-504-MJP		4	30	70	B+	7	28
	PHY-510-MJ		2	15	35	A+	9	18
	PHY-511-MJP		2	15	35	O	10	20
	PHY-541-RM		4	30	70	O	10	40
			22					196
	SGPA	Total Credit point for semester / Total credit for the semester						8.91
II	PHY-551-MJ		4	30	70	O	10	40
	PHY-552-MJ		4	30	70	O	10	40
	PHY-553-MJ		2	15	35	A+	9	18
	PHY-554-MJP		4	30	70	A	8	32
	PHY-560-MJ		2	15	35	A+	9	18
	PHY-561-MJP		2	15	35	O	10	20
	PHY-581-RM		4	30	70	A	8	32
			22					200
	SGPA	Total Credit point for semester / Total credit for the semester						9.10
III	PHY-601-MJ		4	30	70	A	8	32
	PHY-602-MJ		4	30	70	O	10	40
	PHY-603-MJ		2	15	35	A+	9	18
	PHY-604-MJP		4	30	70	B+	7	28
	PHY-610-MJ		2	15	35	A+	9	18
	PHY-611-MJP		2	15	35	O	10	40
	PHY-631-RP		4	30	70	A	8	32
			22					208
	SGPA	Total Credit point for semester / Total credit for the semester						9.45
IV	PHY-651-MJ		4	30	70	A+	9	36
	PHY-652-MJ		4	30	70	D	4	16
	PHY-653-MJ		2	15	35	A+	9	18
	PHY-654-MJP		4	30	70	B+	7	28
	PHY-660-MJ		2	15	35	A+	9	18
	PHY-661-MJP		2	15	35	O	10	20

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	PHY-681-RM		4	30	70	O	10	40
			22					176
	SGPA	Total Credit point for semester / Total credit for the semester						8.00
	CGPA	Total Credit point / Total credit for the course						8.86
	Final Grade							A+ (Excellent)
	% of Marks							81.36 %

7. PERFORMANCE INDICES:

The semester end grade sheet will contain grades for the courses along with titles and SGPA. Final grade sheet and transcript shall contain CGPA.

7.1 Semester Grade Point Average (SGPA) -The performance of a student in a semester is indicated by a number called the Semester Grade Point Average (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses, seminars and projects registered by the student during the semester.

$$SGPA = \frac{\sum_{i=1}^p C_i G_i}{\sum_{i=1}^p C_i}$$

$$SGPA = \frac{\sum \text{Grade Points Earned} \times \text{Credits for each course}}{\text{Total Credits}}$$

For Example: suppose in a given semester a student has registered for five courses having credits C1, C2, C3, C4, C5 and his / her grade points in those courses are G1, G2, G3, G4, G5 respectively.

Then students

$$SGPA = \frac{C_1 G_1 + C_2 G_2 + C_3 G_3 + C_4 G_4 + C_5 G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

SGPA is calculated up to two decimal places by rounding off.

7.2 Course Grade Point Average (CGPA)- The CGPA is the weighted average of the grade points obtained in all the courses (Theory/term work/practical/oral/presentation) of first semester to sixth semester for the students admitted in the First year and third to sixth semester for the students directly admitted at Second year. It is calculated in the same manner as the SGPA.

In case of a student passing a failed course or in case of improvement, the earlier grade would be replaced by the new grade in calculation of the SGPA and CGPA.

8. RESULT:

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Based on the performance of the student in the semester examinations, the Savitribai Phule Pune University will declare the results and issue the Semester Grade sheets.

The class shall be awarded to a student on the CGPA calculated as mentioned in Rule no. 6.1. The award of the class shall be as per Table 6 and corresponding percentage calculation for the CGPA is given in Table 7 along with all details and examples.

Table 6: CGPA distribution and corresponding class of the degree awarded

Sr. No	CGPA	Class of the Degree awarded
1	9.50 or More than 9.50	Outstanding (O)
2	8.25 or more but less than 9.50	Excellent (A+)
3	6.75 or more but less than 8.25	Very Good (A)
4	5.75 or more but less than 6.75	Good (B+)
5	5.25 or more but less than 5.75	Above Average (B)
6	4.75 or more but less than 5.25	Average (C)
7	4.00 or more but less than 4.75	Pass (D)

Table 7: Percentage calculation of a corresponding CGPA

For the calculation of Percentage from CGPA following equation can be used.

$$\% \text{ of Marks} = \begin{cases} \text{if O grade then } 20 \times \text{CGPA} - 100 \\ \text{if A+ grade then } 12 \times \text{CGPA} - 25 \\ \text{if A grade then } 10 \times \text{CGPA} - 7.5 \\ \text{if B+ grade then } 5 \times \text{CGPA} + 26.25 \\ \text{if B grade then } 10 \times \text{CGPA} - 2.5 \\ \text{if C grade then } 10 \times \text{CGPA} - 2.50 \\ \text{if D grade then } 6.6 \times \text{CGPA} + 13.6 \end{cases}$$

The factors considered in the above equations are evaluated from the grade point and marks distribution given in Table 4. The examples of the calculation of percentage are given in the Table 8.

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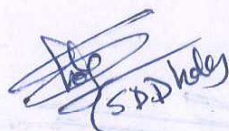
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Dr. Chaitan M. G.

Table 8: Some examples of CGPA to percentage calculations

Obtained CGPA	Equation	Percentage (%)	Grade
10	$20 \times 10 - 100 = 100$	100	O
9.75	$20 \times 9.75 - 100 = 95$	95	O
9.5	$20 \times 9.5 - 100 = 90$	90	O
9.0	$12 \times 9 - 24 = 84$	84	A+
8.25	$12 \times 8.25 - 24 = 75$	75	A+
8.0	$10 \times 8.0 - 7.5 = 72.5$	72.5	A
7.0	$10 \times 7.0 - 7.5 = 62.5$	62.5	A
6.75	$10 \times 6.75 - 7.5 = 60.0$	60.0	A
6.25	$5 \times 6.25 + 26.25 = 57.5$	57.5	B+
5.75	$5 \times 5.75 + 26.25 = 55$	55	B+
5.5	$10 \times 5.5 - 2.5 = 52.5$	52.5	B
5.25	$10 \times 5.25 - 2.5 = 50$	50	B
4.75	$10 \times 4.75 - 2.50 = 45$	45	C
4.0	$6.6 \times 4.0 + 13.6 = 40$	40	D

While declaring the result, the existing relevant ordinances are applicable. There is also a provision for verification and revaluation. In case of verification, the existing rules will be applicable. The revaluation result will be adopted if there is a change of at least 10% marks and in the grade of the course.

For grade improvement a student will have to take minimum 30% of the requisite number of credits for the concerned degree. These courses will be theory courses from the parent department. Grade improvement programme will be implemented at the end of the academic year. A student can opt for the grade improvement programme only after the declaration of the result for his/her final semester exam, i.e., at the end of the next academic year after passing the final examination and within two years of completion of the degree and only once.


S.D. Holey



Dr. Chaskan M. G.

Annexure – 1

Subject Codes

Savitribai Phule Pune University

Subject Codes are assigned to all the disciplines across the faculties of Savitribai Phule Pune University.

Subject Name	Subject Code	Subject Name	Subject Code
Economics	ECO	Botany	BOT
Education	EDU	Chemistry	CHE
English	ENG	Organic Chemistry (PG)	CHO
Geography	GEO	Analytical Chemistry (PG)	CHA
Hindi	HIN	Electronic Science	ELS
History	HIS	Industrial Microbiology	IM
Logic	LOG	Mathematics	MTS
Marathi	MAR	Microbiology	MB
Philosophy	PHL	Physics	PHY
Political Science	POL	Statistics	STS
Psychology	PSY	Zoology	ZOO
Sociology	SOC	Biodiversity	BD
Physical Education	PE	Biotechnology	BT
Library & Information	LIB	Computer Application	CA
Journalism Mass & Communication	JMC	Computer Science	CS
Bvoc Beauty & Wellness	BW	Bvoc Media Convergence	MD
Bvoc Mass Communication	MC		

I) Subject Codes: To be used by all faculties as per their subjects. The Subject Codes which are not being listed below should be assigned by the respective BOS.

II) Course Numbers: Physics as an example. For other discipline or subject physics can be replaced by the respective subject code

Program	Year	Sem	Major				Minor	IKS
			Core	Elective	VSC	FP/OJT/CEP/RP (This specific head of subject assigned to each semester as per the given course number in the same fashion e.g. PHY 231 CEP)		
Under Graduation UG	First Year	I	PHY 101 MJ to PHY 119 MJ		PHY 121 VSC to PHY 129 VSC	-	-	PHY 101 IKS to PHY 119 IKS

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Dr. Chaspar M. G.

		II	PHY 151 MJ to PHY 169 MJ	PHY 171 VSC to PHY 179 VSC	-	PHY 191 MN to PHY 199 MN	PHY 151 IKS to PHY 169 IKS
Second Year		III	PHY 201 MJ to PHY 219 MJ	PHY 221 VSC to PHY 229 VSC	231 to 239	PHY 241 MN to PHY 249 MN	
		IV	PHY 251 MJ to PHY 269 MJ	PHY 271 VSC to PHY 279 VSC	281 to 289	PHY 291 MN to PHY 299 MN	
Third Year		V	PHY 301 MJ to PHY 309 MJ	PHY 310 MJ to PHY 319 MJ	PHY 321 VSC to PHY 329 VSC	331 to 339	PHY 341 MN to PHY 349 MN
		VI	PHY 351 MJ to PHY 359 MJ	PHY 360 MJ to PHY 369 MJ	PHY 371 VSC to PHY 379 VSC	381 to 389	PHY 391 MN to PHY 399 MN
Fourth Year		VII	PHY 401 MJ to PHY 409 MJ	PHY 410 MJ to PHY 419 MJ	-	431 to 439	PHY 441 MN to PHY 449 MN
		VIII	PHY 451 MJ to PHY 459 MJ	PHY 460 MJ to PHY 469 MJ	-	481 to 489	-
Post Graduation PG	First Year	I	PHY 501 MJ to PHY 509 MJ	PHY 510 MJ to PHY 529 MJ	-	531 to 539	PHY 541 MN to PHY 549 MN
		II	PHY 551 MJ to PHY 559 MJ	PHY 560 MJ to PHY 579 MJ	-	581 to 589	-
	Second Year	III	PHY 601 MJ to PHY 609 MJ	PHY 610 MJ to PHY 629 MJ	-	631 to 639	-
		IV	PHY 651 MJ to PHY 659 MJ	PHY 660 MJ to PHY 679 MJ	-	681 to 689	-

III) T – This theory course (should be kept as MJ only mentions theory)

P - Practical courses need to be mentioned as MJP for a major or MNP for a minor.

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Dr. Chaskar M. G.

IV) FP/OJT/CEP/RP - This is to be assigned as per the course (FP/OJT/CEP/RP) run in the semester

for example (PHY 231 CEP, PHY 232 OJT, PHY 233 CEP, PHY 234 RP).

Any course run in the semester will be assigned as per the example.

V) GE/OE, SEC, AEC pattern of the course code as follows. These are all offered other than major subjects.

Program	Year	Sem	GE/OE	SEC	AEC	VEC	CC
Under Graduation UG	First Year	I	OE-101-PHY to OE-119-PHY	SEC-101-PHY to SEC-119-PHY	AEC-101-ENG to AEC-119-ENG	VEC-101-ENV to VEC-129-ENV	CC-101-PE, NSS, NCC to CC-119-PE, NSS, NCC
		II	OE-151-PHY to OE-169-PHY	SEC-151-PHY to SEC-169-PHY	AEC-151-ENG to AEC-169-ENG	VEC-151-ENV to VEC-169-ENV	CC-151-PE, NSS, NCC to CC-169-PE, NSS, NCC
	Second Year	III	OE-201-PHY to OE-219-PHY	SEC-201-PHY to SEC-219-PHY	AEC-201-MAR/HIN to AEC-219-MAR/HIN	VEC-201-ENV to VEC-229-ENV	CC-201-PE, NSS, NCC to CC-219-PE, NSS, NCC
		IV	OE-251-PHY to OE-269-PHY	SEC-251-PHY to SEC-269-PHY	AEC-251-MAR/HIN to AEC-269-MAR/HIN	VEC-251-ENV to VEC-269-ENV	CC-251-PE, NSS, NCC to CC-269-PE, NSS, NCC
	Third Year	V	OE-301-PHY to OE-319-PHY	SEC-301-PHY to SEC-319-PHY	—	—	—
		VI	OE-351-PHY to OE-369-PHY	SEC-351-PHY to SEC-369-PHY	—	—	—
	Fourth Year	VII	OE-401-PHY to OE-419-PHY	SEC-401-PHY to SEC-419-PHY	—	—	—
		VIII	OE-451-PHY to OE-469-PHY	SEC-451-PHY to SEC-469-PHY	—	—	—

VI) Vertical Codes: Nomenclatures of all verticals and their codes

Vertical Name	Vertical Code
Major	MJ
Minor	MN
Generic Elective / Open Elective	OE
Vocational Skill Course	VSC
Skill Enhancement Course	SEC

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Dr. Chakraborty M.A.

Ability Enhancement Course	AEC
Value Education Course	VEC
On Job Training (Internship)	OJT
Field Project	FP
Community Engagement Project	CEP
Indian Knowledge System	IKS
Research Project	RP


SDP holder


Dr. Chaiskar M. A.



Savitribai Phule Pune University, Pune
Maharashtra, India
Faculty of Science and Technology



National Education Policy (NEP)-2020 Compliant Curriculum
For

First Year Engineering (2024 Pattern)
[Common to all UG Engineering Programms]

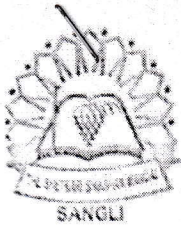
(With effect from Academic Year 2024-25)

First Year Engineering: Curriculum Structure (2024 Pattern) – Semester I

CourseCode	Course Type	Course Name	Teaching Scheme (Hours/week)			Examination Scheme and Marks					Credits			
			Lecture	Tutorial	Practical	CCE	End-Sem	Term work	Practical	Oral	Lecture	Tutorial	Practical	Total
Semester – I : Level 4.5														
ESC101	Basic Science Course	Engineering Mathematics- I	3	1	-	30	70	25	-	-	3	1	-	4
ESC102/ ESC103	Basic Science Course	Engineering Physics / Engineering Chemistry	3	-	2	30	70	25	-	-	3	-	1	4
ETC104/ ELE105	Engineering Science Course	Basic Electronics Engineering / Basic Electrical Engineering	2	-	2	30	70	25	-	-	2	-	1	3
MEC106/ CVL107	Engineering Science Course	Engineering Graphics / Engineering Mechanics	2	-	2	30	70	25	-	-	2	-	1	3
COM108	Engineering Science Course	Fundamentals of Programming Languages	2	-	2	30	70	25	-	-	2	-	1	3
VSE109/ VSE110	Vocational and Skill Enhancement Course	Manufacturing Practice Workshop/ Design Thinking & Idea Lab	-	-	2	-	-	25	-	-	-	-	1	1
AEC111	Ability Enhancement Course	Professional Communication Skills	-	2	2	-	-	25	-	-	-	2	-	2
CCC112	Co-Curricular Courses	Co-Curricular Courses - I	-	-	4	-	-	25	-	-	-	-	2	2
Total			12	03	14	150	350	200	-	-	12	3	7	22

First Year Engineering: Curriculum Structure (2024 Pattern) – Semester II

Course Code	Course Type	Course Name	Teaching Scheme (Hours/week)			Examination Scheme and Marks					Credits			
			Lecture	Tutorial	Practical	CCE	End-Sem	Term work	Practical	Oral	Lecture	Tutorial	Practical	Total
Semester – II : Level 4.5														
ESC113	Basic Science Course	Engineering Mathematics- II	3	1	-	30	70	25	-	-	3	1	-	4
ESC103/ ESC102	Basic Science Course	Engineering Chemistry/ Engineering Physics	3	-	2	30	70	25	-	-	3	-	1	4
ELE105/ ETC104	Engineering Science Course	Basic Electrical Engineering / Basic Electronics Engineering	2	-	2	30	70	25	-	-	2	-	1	3
CVL107/ MEC106	Engineering Science Course	Engineering Mechanics/ Engineering Graphics	2	-	2	30	70	25	-	-	2	-	1	3
ITT114	Program Core Course	Programming and Problem Solving	2	-	2	30	70	25	-	-	2	-	1	3
VSE110/ VSE109	Vocational and Skill Enhancement Course	Design Thinking & Idea Lab/ Manufacturing Practice Workshop	-	-	2	-	-	25	-	-	-	-	1	1
IKS115	Indian Knowledge System	Indian Knowledge System	-	2	-	-	-	25	-	-	-	2	-	2
CCC116	Co-Curricular Courses	Co-Curricular Courses - ii	-	-	4	-	-	25	-	-	-	-	2	2
Total			12	03	14	150	350	200	-	-	12	3	7	22



The Shetkari Shikshan Mandal

Bhivarabai Sawant College Of Engineering & Research

Accredited by NAAC With 'A' Grade

(Approved by A.I.C.T.E. & Govt. of Maharashtra Affiliated To Savitribai Phule Pune University

West/1-3669721/2010.New dated 13 Jul 2010.)

S.No. 12/1/2 & 12/2/2, Narhe, Taluka-Haveli, Pune-411041.

Phone : 020-24608500/01 Website : www.tssm.edu.in

Email : principal@tssm.edu.in

Dr.G.A.Hinge

Ph.D.LMISH

PRINCIPAL

Prof. Dr. T.J. Sawant
(Elec.), PGDBM, Ph.D.
PRESIDENT

Ref: TSSM/BSCOER/MOU/2020-21/

Date: 06/08/2021

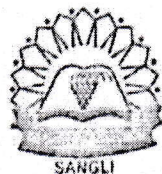
MEMORANDUM OF UNDERSTANDING

BETWEEN

SYNERGY
SOLUTIONS

Synergy Solutions, Pune

and



TSSM's

**Bhivarabai Sawant College of Engineering & Research, Narhe,
Pune**

This Memorandum of understanding (MOU) is entered on date 06/08/2021 between Synergy Solutions, 410, Narayan Peth, Modak Prasad, Pune and TSSM's Bhivarabai Sawant College of Engineering & Research, Narhe, Pune for enhancing the quality of technical education being imparted to Engineering students at the institute.

OBJECTIVES:

1. This MOU has been signed for the purpose of enriching the quality of technical education in new subject area of Skill Development Program for Electric Vehicles, EV-Charging technologies as well as learning and teaching processes for the same. Furthermore, the objective is to jointly work for enhancing the quality of education being imparted to engineering students for following areas.
 - Fundamental of Electric Vehicle
 - Powertrain Component of Electric Vehicle
 - Charging Technology of Electric Vehicle
 - Servicing and Maintenance for Electric Vehicle
 - Safety and Trouble-shooting for Electric Vehicle
 - EV Industry scenario and Job Responsibility
 - Business Training
2. To prepare students with advanced technical skills in order to make them compatible for industrial needs and to gain recognition globally in the field of Electric Vehicles and EV charging.
3. MOU will be converted in binding contract within 8 months to start actual execution

BENEFITS FOR BOTH PARTIES:

As per MOU

Synergy Solutions, Pune will help the institute by granting the permission for-

1. Conduct guest lectures, workshops, competitions (in house, national, international level), seminars, conferences and various other interactive activities to bring out the best in students.
2. Allow faculty-training programs on newly developing technologies in order to increase the quality of classroom education.
3. Provide technical as well as soft skills training to increase employability. To prepare students for professional industrial approach.

4. Work with educational bodies/ universities to align industrial requirement with college curriculum.
5. Technical guidance for development of College Lab and Setups. Provide research projects to teaching faculty members to enhance quality of education.
6. Provide sponsorships and support for various events organized by college for specific subjects.
7. Share industry oriented courseware and technology with students and faculty members, and organize joint programs between industry and academicians.

TSSM's Bhivarabhai Sawant College of Engineering & Research, Narhe, Pune will help industry providing-

1. Research or computer lab facility for theory and practical classes.
2. Help in making arrangements for campus interviews and events for student welfare.
3. Information about passed out students looking for change in service.
4. Support for organizing career counseling sessions for students of the institute.
5. Technical support in making arrangements of any program that is to be held at the institute.
6. Prepare students for the job opportunities that are being marked with the help of our Training and Placement Cell.

TERMS AND CONDITIONS:

A. Relationship:

1. MOU is the collaboration between two parties for mutual benefits.
2. MOU stands valid for *five years* from the date of agreement. The collaboration can be terminated from either side with notice period of *six month*.
3. Both parties shall work in synchronism to ensure the successful completion of collaboration.
4. Both parties shall provide adequate facilities to the students undergoing training with mutual understanding.

5. Mr. Amarnath Chakradeo (Partner- Synergy Solutions, Pune.) will be single point of contact from Synergy Solutions till we reach at final agreement/contract.
6. Dr. S. N. Patil will be single point of contact from Bhivarabai Sawant College of Engineering and Research, Narhe, Pune.

B. Obligations:

1. There shall be no obligation on any party to compensate the other in any manner or to make any claim.
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3. Each party shall respect the others intellectual properties.
4. Both parties shall maintain confidentiality about any information.

C. Limitations:

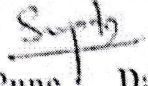
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2. Unless and until the parties agree, there shall be no public announcement. Agreement has to be in the form of written approval.
3. Any dispute under this MOU will be settled at PUNE, through arbitration if necessary.

In written, where of both parties put their hard seal on the day, month and year herein mentioned.

Signature:


Place: Pune Date: 6/08/2021
Dr. S. N. Patil
HOD - Electrical Engg.
TSSM Bhivarabai Sawant
College of Engg.,
Narhe, Pune - 411041.

Signature:


Place: Pune Date: 06/08/21
Amarnath Chakradeo
Partner, Synergy solutions.
410, Narayan peth, Modak
prasad,
Pune - 411030.

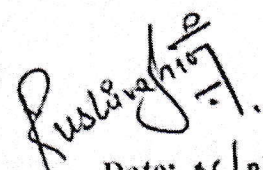
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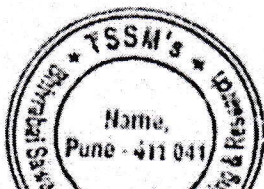

Place: Pune Date: 6/8/2021
Dr. G. A. Hinge
Principal
TSSM Bhivarabai Sawant
College of Engg.,
Narhe, Pune - 411041.

Signature:


Place: Pune Date:
Jayant Limaye
Partner, Synergy solutions.
410, Narayan peth, Modak
prasad, Pune - 411030.

Signature:


Place: Pune Date: 06/08/2021
Mr. R.T Sawant
Campus Director
TSSM Narhe Campus,
Narhe, Pune - 411041.



Date: 06/08/2021

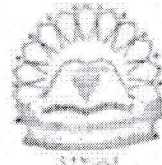
MEMORANDUM OF UNDERSTANDING

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SOLUTIONS

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Pune

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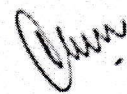
1. Conduct guest lectures, workshops, competitions (in house, national, international level), seminars, conferences and various other interactive activities to bring out the best in students.
2. Allow faculty-training programs on newly developing technologies in order to increase the quality of classroom education.



3. Provide technical as well as soft skills training to increase employability. To prepare students for professional industrial approach.
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Signature:



Place: Date: 6/8/21
Dr. S. N. Patil
HOD - Electrical Engg.
TSSM Bivarabai Sawant
College of Engg.,
Narhe, Pune - 411041.

Signature:



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Amarnath Chakradeo
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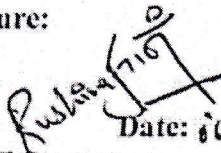


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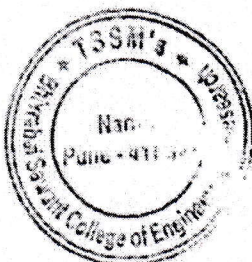
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Mr. R.T. Sawant
Campus Director
TSSM Narhe Campus,
Narhe, Pune - 411041.



Short Term and Long Term Goals

1) Academic Enhancement:

Short Term Goal

- Designing the Curriculum of Upcoming Batches as per New Education Policy 2020 (NEP 2020) and by Taking Inputs from Reputed Industry and Institutes of Eminence
- Offering Minors and Honours along with Major Degree
- ‘Handbook of Information’ for Students [Continuous Process]
- Establishing Teaching and Learning Centre (TLC)

Long Term Goal

- Restructuring of the Department
- Learning Management System (LMS) and Virtual Learning Environments (VLE)
- Inclusion of Value Addition Courses, Training, or Certification
- Move Away from High-Stakes Examinations Towards More Continuous and Comprehensive Evaluation
- New UG and PG Programs on Emerging and Market-Relevant Technologies

Measurable Parameters

- **Curriculum Alignment:** Percentage of courses updated to align with NEP 2020 and industry input.
- **Minors and Honours Enrolment:** Number of students enrolled in minors and honours programs.
- **Handbook Distribution and Utilization:** Rate of distribution and usage of the ‘Handbook of Information’ among students.
- **TLC Effectiveness:** Number of faculty trained and improvements in teaching evaluations and practices.
- **Departmental Restructuring Impact:** Measurable improvements in departmental performance and efficiency post-restructuring.
- **LMS and VLE Usage:** Frequency of LMS and VLE usage by students and faculty, and user satisfaction ratings.
- **Value Addition Participation:** Number of students participating in value addition courses and certification programs.
- **Assessment Method Transition:** Percentage of courses adopting continuous and comprehensive evaluation methods.

- **New Program Enrolment and Success:** Enrolment numbers and success rates of new UG and PG programs, and their impact on student career outcomes.

2). Infrastructure:

Short Term Goal

- Modernisation of laboratory and classroom infrastructure
- Transforming and maintaining the green campus
- Provide infrastructure for various students' facilities
- Creation of indoor sport facility

Long Term Goal

- Creating research infrastructure
- Modernized Library & Information Centre

Measurable Parameters

Budget Compliance: Adherence to the allocated budget for each infrastructure project.

Timeline Adherence: Completion of projects within the scheduled timeframes.

Quality Assurance: Assessment of infrastructure quality through inspections and audits.

Impact Assessment: Evaluation of the impact on student experience, academic performance, and research output.

3). Administration:

Short Term Goal

- Streamline the Recruitment and Selection Procedures
- Recruitment of Faculty for Niche Engineering Domains
- Faculty Performance Appraisal and Career Advancement Schemes
- Conducting Workshops, Refresher Courses, and Training Programs to the Faculty for Autonomy

Long Term Goal

- Increase the Number of Doctorate Faculty Members
- Adoption of Tenure Track (from Implementation of NEP 2020)

Measurable Parameters

- **Budget Adherence:** Compliance with the budget allocated for human resource development activities.
- **Timeline Adherence:** Timeliness in achieving recruitment, training, and development milestones.

- **Quality Indicators:** Assessments of the quality of new hires, training effectiveness, and career advancement outcomes.
- **Impact Assessments:** Evaluation of the impact of recruitment, training, and career advancement strategies on overall institutional performance and faculty satisfaction

4). Research and Development:

Short Term Goal

- Develop ‘Research Ethics Policy’
- Facilitation of Research by Providing Seed Grants

Long Term Goal

Strengthening Institutional Innovation and Research Councils (IRC)

- Having Direction, Niche, or Strategy for Research

Measurable Parameters

- Research Ethics Policy
- Seed Grants
- Institutional Innovation and Research Councils (IIRC)
- Research Strategy and Thrust Areas

5). Industry Institute Interaction:

Short Term Goal

- Develop ‘National and International Relation Policy’
- Facilitating Industry and Institute Alliances

Long Term Goal

- Enhance Academic Collaborations
- Increase Industry Engagement

Measurable Parameters

- National and International Interaction Culture
- Awareness and Opportunities
- Industry Exposure Opportunities
- Sustainable Partnerships
- Collaboration with World-Class Institutions