

॥ GYAN SEVA TYAG ॥

Shri Vyanknath Shikshan Prasarak Mandal's

SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

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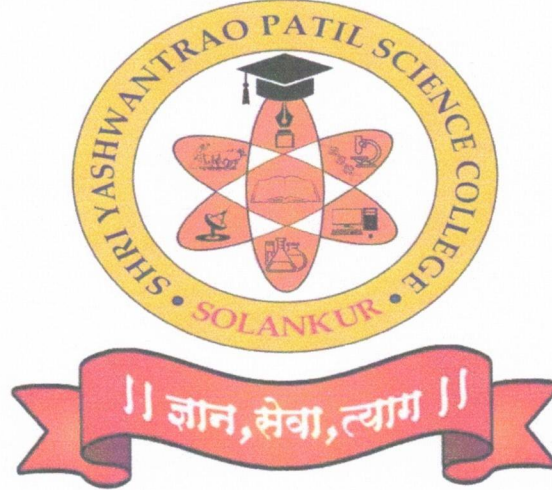
Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

Shri. A. Y. Patil
Secretary

Shri. R. Y. Patil
Chairman

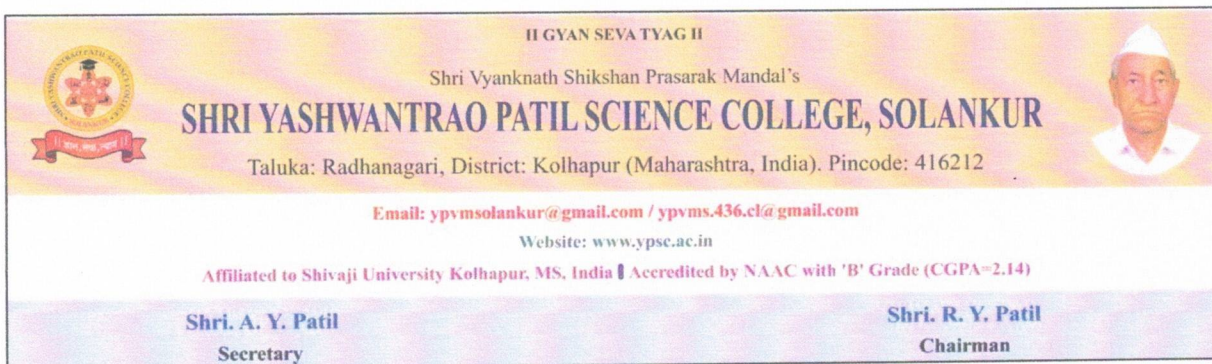
(2018-2023)

Institutional perspective plan and deployment



**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE,
SOLANKUR**



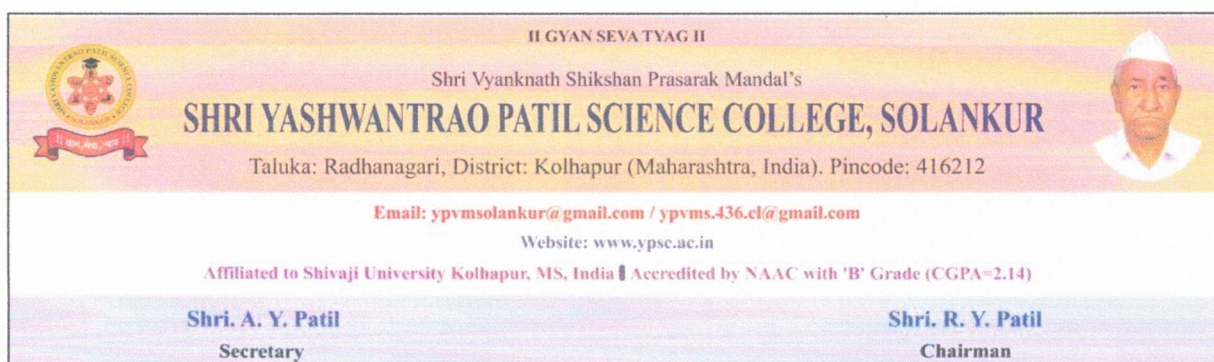


About Institution

Shri Yashwantrao Patil Science College (YPSC), Solankur was established in 2009 and received State Governments Grant-in-Aid in 2013. It is accredited by NAAC in 2017. The college has organized various State Level workshops/seminars. It has successfully organized two National Level Conferences, three International Conferences. College is based nearby the riverside of Dudhganga, a hilly rural area of Radhanagari tehsil in the Kolhapur district of Maharashtra. It is the only science college in the tehsil. Being the mountainous rural area, to meet the barrier in higher education and to remove the inequities in access to education amongst various social groups, the foundation of Sanstha pillared under the competent guidance of Hon. A. Y. Patil saheb.

Shri Vyanknath Shikshan Prasarak Mandal, Solankur was established in 1996. Starting with primary, highschool, junior college of arts & science; the senior college started in the year 2009 with the mission to sensitize the students to ethical, social and cultural values to make an enlightened nation and strive for mass welfare and happiness through spread of education. The college is committed to meet the educational and societal needs of the hilly rural area which will help to build up the humane nation under the skilled leadership of college Chairman Hon. R. Y. Patil saheb. Preparations of Strategic plan and deployment is the foremost priority to bring in action of academic and administrative plan.





SWOC ANALYSIS

➤ Institutional Strength

Simply strength means a resource, skill or other advantages relative to competition and the needs of markets a institute serves or anticipates serving. Strength is a distinctive competence that gives the institute a comparative advantage in the market place. Financial resources, infrastructural facilities, good name, market leadership etc. are the examples of strengths.

- Government aided college
- Affordable fees for admission (as per Shivaji University, Kolhapur norms)
- The only science college in the *tehsil*
- Experienced, dedicated, competent and highly qualified staff
- Thirteen Ph.D. **Two** Post-Doctorate, and **five** SET/NET-CSIR faculties
- Innovative teaching and learning process to ensure holistic education development of students.
- A strong bond and a high level of interaction between faculty and students
- Quality research publications
- Encouraging environment for teaching and learning
- Active participation of students' in extra-curricular activities
- Registered and functional Alumni Association
- Optimum state-of-the-art infrastructure.
- Overall development of students is the motto of the college and is reflected by the performance of students in sports activities at State, National and International level winning accolades and awards.

➤ Weakness

- Not accredited by UGC with 2f & 12b.
- Limited ICT based teaching-learning due to shortage of equipment's
- Limited interaction and linkages with industries due to short span of existence
- Less exchange of experts between institute and industry
- Insufficient collaborations and networking with R&D laboratories
- Needs library up-gradation



- Limited options for student's research
- Poor communication skill of rural students
- Lack of 100% recruitment in the aided section of the college due to Government policies.
- Lack of grants for new programmes. Due to a lack of professional programs, few reputed organizations participate in the process of student placement.
- Research facilities and related infrastructure needs augmentation

➤ Opportunities

- Scope for more professional courses.
- Scope to adopt SWAYAM/NPTEL courses.
- To develop academia-industry collaborations to enhance the employment opportunities
- Establishing incubation centers and start-ups. Strengthening of training for competitive examinations.
- To mobilize the alumni community for institutional development. Offering hands-on training in sophisticated instruments.

➤ Challenges

- Coping with rapid development in the area of higher education, particularly in the area of pedagogy with a focus on NEP 2020.
- To enhance student employability/placements
- Competition from both upcoming and established nearby institutions
- Financial constraint for additional undergraduate, postgraduate and job-oriented programs



SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Five Year Perspective Plan

2018-2023

While preparing the present perspective plan, the Shri Yashwantrao Patil Science College, Solankur has considered following main objectives:

- 1) NAAC-the observer of quality bench marking in higher education
- 2) Vision and Mission Statement of Our College.
- 3) Quality Policy of the College

Objectives of Perspective Plan

Writing a vision document envisages a concerted team effort. Considering the background of our college as an institution imparting quality education, the College has identified the broad aim of perspective plan as follows:

To institute a sustained quality system embedded with a conscious, consistent and programmed action;
To create an enabling academic environment for students embedded with sincerity, discipline and commitment;

To mould humane citizens of the nation;

To establish globally the brand image of the college;

To emerge as a model college for quality education.

The aim identified has been to bring three 'Hs' together in an integrated manner viz...

- ☐ Hand (to develop skills)
- ☐ Head (to gain advanced knowledge)
- ☐ Heart (to inculcate human values)

To achieve these broad aims, a set of following objectives are identified to be achieved through this perspective plan over the next 5 years:

To uphold continuously good academic performance;

To inculcate learner centric and effective teaching learning process;

To ensure transparency and credibility in the process of students' evaluation;



To develop a comprehensive system of student mentoring and student support;
To take care of horizontal and vertical up gradation of students considering the limits of time and expectations;
To create a research culture in faculty and students.
To conduct skills development programmes for improving the employability of students;
To motivate students for self-employment and to enable them to emerge as entrepreneurs;
To involve a friendly, efficient and flawless administrative set up ensuring a smooth day to day functioning;
To empower faculty about emerging trend in their profession for academic advancement;
To send AQAR of the year 2017 to 2022 to NAAC.

The following points focus on the Institutional perspective plan for the next five years:

Teaching and Learning Plan:

Development of more smart class
Extensive use of online Teaching and Learning resources.
Start /PG Programmes.
Computerize Library and office.
Strengthen Library by adding with more books and e- journals to the Library.
Apply for Infrastructure and equipment's grants to different funding agencies.
Conducting Academic & Career enrichment programmes.
Strengthen of the use of ICT and enhancement of the tools in Teaching Learning processes.
Organize food festival.
To provide student internet facility.
Motivate faculty members for research work
Motivate and depute teachers to Orientation Courses and Refresher Courses
More focus on students' welfare activity like Career counselling and guidance center, Training in competitive examinations etc.
Students will be asked to enroll for free courses on Course NPTEL/AICTE /SWAYAM.

Research and Development Plan:

Educational linkages in terms of more MoU, Linkages with institutions and take up collaborative



- Scientifically customized learning resources in each discipline.
- Transparent documents between the teachers and students
- Continuous updates of the manuals and lecture notes.
- Compulsory industrial visits/training.
- Mini projects for integrating skills.
- Interactive expert lectures.
- Free educational resource.

Academic Monitoring

- Curriculum Implementation and Assessment Norms
- Continuous assessment
- Result Analysis
- Development and Use of new learning resources
- Improved Students attendance
- Improved Library facilities and e-Resources
- Laboratory standards and Manuals
- Closed Loop system i.e. corrective measures through feedback mechanism.
- NAAC accreditation of college & Academic audits.

E-Learning

- Students and teachers of remote colleges to benefit.
- Online certificate courses
- Career counselling sessions.
- MoUs with other institutes
- e-Depository of lectures, presentation, educational videos

Faculty Development

- Subject/Content updating training
- Pedagogy -Teaching and Learning processes • Industrial Training
- Hands-on-skills trainings.
- Intellectual Property Management
- Life Skills, communication skills & Professional Skills
- Research Methodology



research.

Promote participation of staff members in FDPs like refreshers and orientation programmes

Promote inter-disciplinary research

Promotion of publication in indexed research journals

Promote faculty members to have at least one major/ minor project

Conduct more International Level, National Conferences, Seminars and Workshops.

To motivate faculty to apply for Patents.

Enhance the research aptitude of teachers and students

Promote participation in international conferences/ seminars/workshops/symposium

Involve more faculty members and students in research activity.

Provide research grant to faculty and students.

Motivate the teachers and provide financial support for international conferences.

Organize International, National and State level conferences, workshops, seminars etc.

Enhance Entrepreneurship, job skills to ensure placement.

Teachers will be motivated to prepare research projects proposals to submit to the funding agencies.

Community Engagement Plan:

Introduce community service into curriculum of UG programme with credits

More tie-ups with NGOs

Implement extra-curricular and other activities through N.S.S. etc. to develop the spirit among students to serve the community.

Industry Interaction Plan:

Invite Industry experts for motivating students and provide practical knowledge

Strengthen Campus placement and training facility by making more industry linkages

Promote student to work on real projects for industries

Green Campus Plan:

Create awareness about clean and green campus, and to conduct better green audit of the campus.

What Shri Yashwantrao Patil Science College, Solankur is aiming for from Five-year perspective plan...

Academic Resources



Centre of Excellence

- Bridging technology gaps between industry and academics.
- Improve employability and entrepreneurship.
- Hands on Practical Experience of recent technologies practiced in the industry.
- Faculty development and enrichment.
- Project and research programs.
- Information Processing and Planning of research

Skill Development

- To motivate the students to become entrepreneurs.
- To promote science and technology development

Training and Placement

- Create equal opportunity for students and industries in urban as well as in rural areas.

Innovation

- Promote and boost the ability of faculty & students towards innovation
- Innovation for product, process or system.
- Technology Transfer support



Strategic Plans

Institution Strategic Plans:

1. Effective teaching learning process
2. Developing and following leadership and participative management
3. Establishing Internal Quality Assurance System
4. Quality governance
5. Ensuring student's development and participation
6. Ensuring staff development & welfare
7. Developing financial management
8. Focusing on linkages, collaborations and MOU'S
9. Development of entrepreneurship
10. Motivating staff for research work
11. Increasing Alumni Interaction and participation and Outreach activities
12. Engagement in Community Services and Activities
13. Developing infrastructure



Strategic Planning (2018-2023)

Teaching learning process	<ul style="list-style-type: none"> • Academic planning and preparation of Academic Calendar • Preparation of annual teaching • Use of more teaching aids and adopt more ICT • Development of e- learning resources • Promote research culture & facilities • Provide mentoring and personal support • Feedback system • Continuous assessment to measure outcomes • Performance development of choice-based credit system • Implementation of best practices • Implementation of addon courses
Leadership and participative management	<ul style="list-style-type: none"> • Decentralization of academic and administrative work • Assigning duties • Establishment of Statutory and non-Statutory committees
Internal Quality Assurance System	<ul style="list-style-type: none"> • Establishment of IQAC • Formation of IQAC committee and functioning • Providing faculty development strategies • Periodic check & guidance for quality improvement • Encouraging best practices • AQAR preparation and submission • Organizing workshops, conferences and seminars



	<ul style="list-style-type: none"> • Vision, Mission development & their articulation in every key position • Evaluation of Institute's performance and benchmarking • Preparing Institutional perspective plan • Institutional Strategic and perspective development plan • Monitoring and Implementing the Quality Management Systems • Maintaining infrastructure facilities • Functioning of statutory committees • Establishing E- governance • Leadership development through decentralization • Code of conduct and policy formulation, approval and implementation • Preparing institutional organogram • Following service rules as per UGC and Govt of Maharashtra
Student's development and participation	<ul style="list-style-type: none"> • Budget preparation for student activities • Students Trainings & Placement Activities • Formation of student council and mentoring • Student's representatives in all committees • Participation in competitive exams • Annual sports competition • Participation in curricular, cocurricular and extracurricular activities • Participating in social and welfare activities • To attend extra classes for slow learners • Arranging excursions
Staff development & welfare	<ul style="list-style-type: none"> • Policy formation & implementation • Staff performance evaluation system • Staff Training for better teaching learning • Provide possible work facilities • Code of conduct, service rules & leave rules • Staff welfare policy implementation • Career advancement schemes • Rewards, recognitions and incentives • Deputation for seminars, conferences and workshops etc. • Sponsorship/ Motivation for qualification improvement • Deputing university exam duties for theory and practical's





Financial management	<ul style="list-style-type: none"> • Department wise Budget planning and allocation • Reporting income & expenditure • Effective functioning of purchase committee • Budget formulation & approval through Finance Committee • Periodic external and internal audits • Transparency in all transactions
Institute – Industry Interaction	<ul style="list-style-type: none"> • Frequent meeting arrangements for industry institute interaction • MoUs with industries • Support for projects, visits, trainings, guest lectures • Making collaborations with higher institutions • Providing career guidance • Strengthen training & placement • Organizing various quality initiatives
Research and innovation	<ul style="list-style-type: none"> • Applying for Government/Non-Government funding agencies • Collaborations with Government & Private Institutes, Universities and Research Organizations • Applying for patents



Alumni Interaction	<ul style="list-style-type: none"> • Formation of Alumni association, participation and registration • Recognition of prominent alumni • Call for guest lectures /entrepreneurship
Physical infrastructure	<ul style="list-style-type: none"> • Infrastructure building development & modification • Smart Class rooms, Tutorials, Seminar halls • Modernization of Laboratory & equipment • More ICT enabled classrooms • Library infrastructure up gradation • System up gradation • Functional facilities for e-learning • Safety & Security management • Water facility • Medical facility • Developing sports (indoor/outdoor) facilities • Plantations • Rain water harvesting • Renewable Energy usage • Hygiene, zero plastic & green campus



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<p>Shri. A. Y. Patil Secretary</p>	<p>Shri. R. Y. Patil Chairman</p>	

STRATEGIC PLAN FOR THE ACADEMIC YEAR (2018-2023)

I. CURRICULAR ASPECTS:

- To apply for various UG and PG programs.
- Strengthening teaching learning
- To start value added courses, certificate courses and skill-oriented programs
- Actively participating in university BOS.
- To work for syllabus reform committee as institution member
- To participate in university examination duties

II. TEACHING, LEARNING AND EVALUATION:

- To develop a strategy for identifying the Slow and Advanced learners
- Participating in FDPs and innovation trainings for teaching
- To enhance Alumni involvement in teaching.
- To increase collaboration and linkages with industry, Higher institutions.
- To implement ICT based learning
- To evaluate teaching and learning (CIE)
- Identifying advanced and slow learners

III. RESEARCH INNOVATION AND EXTENSION:

- To initiate research activities and innovations
- Applying for various funding agencies
- To improve visibility of research and publications.
- To start extension activities

IV. INFRASTRUCTURE AND LEARNING RESOURCES:

- To increase learning resources
- Automation in library.
- Focusing and developponing on e-learning resources.
- Establishing ICT based classrooms

V. STUDENT SUPPORT AND PROGRESSION

- Initiating skill development courses



- To arrange guest lectures for competitive exams
- Student support (Financial)
- To operate student counselling and mentoring effectively.
- To organize Parent Meet
- To create employment opportunities
- To provide placements


VI. GOVERNANCE, LEADERSHIP AND MANAGEMENT:

- To prepare service policies and documents
- To prepare an Institutional development plan.
- To conduct Academic Audit
- Improvement of administration to create college as milestone in rural area.
- Implementing e-governance
- Welfare measures for teaching and non-teaching staff
- To operate faculty development strategies

VII. INSTITUTIONAL VALUES AND BEST PRACTICES:

- To perform social responsibilities
- Sustainable growth of institution and maintaining ecofriendly campus
- Following best practices to reach students and society.




PRINCIPAL
 Shri Yashwantrao Patil Science College,
 Solankur, Tal. Radhanagari, Dist. Kolhapur.