

Rajarambapu College of Sugar Technology, Islampur.

Perspective plan 2023-24 to 2027-2028

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Current Status of the College:

General Profile

Name and address of the college: Rajarambapu College of Sugar Technology, Islampur.

Year of Establishment of College: 2010

College website: www.sugartechnology.in

Status: Private Un-aided, Self-funded Institute.

Academic Programmes offered in academic Year 2021-22:

UG: B.Sc.

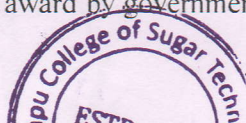
PG: 1. M. Sc. (Sugar Technology), 2. M. Sc. (Alcohol Technology)

Certificate Courses: 1. Distillery plant operator, 2. DCS operator

About the College

Rajarambapu College, Islampur which is affiliated to Shivaji University, Kolhapur is a pioneer higher education institution imparting quality education to the youth of rural, economically and socially weaker sections of the society since 2010. It was established by Krushival Shikshan Prasarak Mandal, founded by the visionary leader, Hon. Babasaheb Pawar. The institute is marching ahead for institutional excellence, driven by the values, aspirations and ideologies of its founder member Hon. Babasaheb Pawar, committed to the service to society and addressing different issues related to environment, has done pioneering work in conservation awareness campaigns, tree plantation and natural resource management. He has received 'Sakhar Udyog ani tyatil Shikshan' award in 2018, 'Remarkable work in sugar industry' award by government of Maharashtra in 2002 and many other awards.

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Our college follows a philosophy of "Knowledge is a Power". Today in this 21st Century, the Sugar industry is one of the pioneer industries amongst all industrial world in India. But till this time, there is a lack of separate educational course providing the skilled expertise knowledge to step into the shoes of "Sugar Technologist" considering the development taking place in the Indian Sugar industry. This college was established with the intention of, establishing the expert skilled manpower required for sugar and allied industry.

The structure of courses, availability of huge in-plant Training, Laboratory facility, Library facilities will help the students in developing the confidence & power with knowledge in real life work environment. The college has good and competent and student caring faculties, advisors and academicians with highly expert knowledge in different aspects of sugar & alcohol technology.

The dynamic and enlightened Management are aware of educational needs of sugar industry and are actively involved in the functioning of the college. Dedicated faculty work towards attainment of educational outcomes. The secret of the success of the institution in its academic endeavor is attributed to the healthy support established between the Management, Faculty, Administrative Staff and the Students for their dedication to enhance quality in Higher Education.

Vision: Leading Edge Technologist for the Sugar and Allied Industries.

Mission Statements:

- To emerge as one of the most preferred institutes by providing high technical knowledge of sugar and allied industries.
- To impart quality education in the field of sugar and alcohol technology to achieve the needs of sugar and allied industries.
- To prepare young technocrats with sound footing of basic technical & managerial skills, research capabilities to lead and use technology for the progress of sugar and allied industries.

Core Values

- 1) Quality Education
- 2) Social Service
- 3) Sound Character
- 4) National Integration
- 5) Global Competence
- 6) Scientific Temper
- 7) Environmental Consciousness

Strength, Weakness, Opportunity and Challenges (SWOC):

1. Institutional Strength:

- Only one college affiliated to Shivaji University offering B. Sc. And M.Sc., courses in Sugar Technology.
- Competent, dedicated and experienced teaching and non-teaching staff. Emphasis on learner centric ICT based teaching-learning approaches and pedagogic innovations.
- Average percentage of placement over last 11 years is 97%.



- Extension activities through NSS to help neighborhood communities and instill value of team work to students.
- Access to Wi-Fi and internet to all in campus making operation of the institute smooth.
- Mineral water facility for students keeping in mind not many learning days wasted due to health issues.
- Dedicated and visionary management Optimum of lush green eco-friendly campus and infrastructure.
- Skill-based career-oriented certificate courses.
- All UG & PG courses are with choice-based credit system.
- Inplant training facility to students.
- Engagement with society through impactful extension activities.
- Average percentage of University Examination Results is- 95 %.

2. Institutional Weakness:

- Students are from financially weak background.
- Restriction in appointing permanent staff due to lack of Ph. D. programme in sugar technology at nearby Universities.
- Number of research collaborations and linkages need to be increased.
- No adequate hostel facilities for students
- Less representation and achievements by students in sports and cultural activities at University and National level.
- Less number of publications in UGC Care-listed journals by the faculty.

3. Institutional Opportunity:

- To enhance the number of MoUs and linkages for collaborative research, publications, seminars / symposia / workshops, exchange and sharing of resources.
- To start multidisciplinary education and validate the academic progress.
- More opportunities of better performance in sports and cultural activities.
- Harnessing research potential of faculty members and to intensify a strong research climate through funded research projects in sciences.
- Commencement of agro-based courses for entrepreneurial development.
- Strengthening of training for competitive examinations.
- Adoption of SWAYAM/NPTEL courses.
- To increase the number of skill-oriented courses.

4. Institutional Challenge:

- To attract the students towards Sugar Technology programmes.
- To improve use of ICT based pedagogical tools for teaching and learning process.
- To create awareness among students about higher level competencies and aspirations.
- Maximizing potential of alumni to contribute in terms of placement, finance and research.
- Infrastructural development to provide necessary impetus to Sports environment on campus.
- Implementation of National Education Policy (NEP).



Perspective Plan Proposed by IQAC for the period 2021-22 to 2025-2026

Perspective Plan Committee

Sr. No.	Name	Designation
1	Shri. B. D. Pawar	President
2	Shri. U. B. Pawar	Secretary
3	Dr. A. N. Basugade	Principal
4	Shri. R. M. Pawar	IQAC Coordinator
5	Mr. M. M. Patil	Ladies Representative
6	Dr. S. G. Patil	Teaching Faculty
7	Shri. A. V. Magdum	Teaching Faculty

I. Curricular Aspects

1. Overall perspective of Curricular Planning and Implementation

Sr. No.	Area of concentration	Action Plan
1	Appointment of Qualified Teachers	Well qualified and experienced teachers are to be appointed against all sanctioned posts by obeying the rule & regulations of University and Government of Maharashtra. Appointment procedure to be fulfilled before the start of every academic year so that it is possible to conduct all lectures right from beginning of the academic year. Also senior faculty who are related to sugar industry are to be appointed as visiting faculty for M.Sc. Courses to get in-depth knowledge of subject to the students.
2	Conduct of Periodic Audits and NAAC	Periodic audits of the college shall be conducted (in addition to Regular Financial Audit of every year) by inviting peer team of academicians. The proposed audits to be undertaken in the next 5 years are: 1. Academic audit (every year) 2. Green Audit (every alternate year) 3. Energy Audit (every alternate year) All Audit Reports to be uploaded on the college website for the knowledge of all the stake holder.

2. Strengthening of Existing Programmes:

1) Quantitative strength:

a) Introduction of new programmes:

Considering the employers' expectations and employability of students, the college can



introduce new UG & PG programmes in the next five years. The college can also introduce Skill Development programmes.

Undergraduate and Post graduate Programmes:

Sr. No.	Course to be Initiated	Period/ Year
1	B. Sc. Alcohol Technology	2024 – 2025
2	M. Sc. Environmental Science	2025 – 2026
3	M. Sc. Microbiology	2026 – 2027

Other Skill Development Certificate Courses:

Sr. No.	Course to be Initiated	Period/ Year
1	Ethanol Plant Operator	2024 – 2025
2	Boiler Maintenance & Operation	2025 – 2026
3	Turbine Attendant	2026 – 2027

II) Qualitative Strength: (2023 to 2028)

a) Active Participation in Curriculum Design:

Faculty will be actively participating in curriculum designing and development as per the guide lines of university and NEP through members of sub committees of respective subjects.
Teachers will also gain experience in designing syllabi for certificate courses.

b) Effective faculty development:

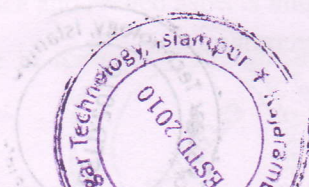
The College will effectively invite academicians, Industrialists, subject experts from other institutions as resource persons for organizing subject workshops in the college. For effective implementation and to get acquainted with the emerging techniques and trends of the industries and subject matter, faculty will also be deputed to attend workshops in other centres.

c) Development of Linkages:

In a view to execute curriculum effectively, the college will develop the linkages with local & state level academic institutions and industries during.

d) Academic Flexibility:

The college will accept competence enhancing curricular strategies by starting multifaceted, comprehensive, well-designed curriculum which promotes the excellence, value addition and contextual relevance by providing utility, access, relevance, service and preservation & promotion of heritage. The college will offer additional programme options like B.Sc.(Alcohol Technology), M.Sc. (Environmental Studies), M.Sc. (Microbiology), course options, certificate and diploma programmes Such as EPO, BM & O, TA. Thus, college will offer maximum possible flexibility with UG, PG programmes, core options, elective options, and certificate programmes.



e) Feedback system:

The college will introduce an online mechanism for feedback on curriculum college infrastructure & faculty, its scientific, Systematic analysis and interpretation will be communicated to the stakeholders and university Authorities.

g) Academic Infrastructure:

At present the college building is on rental basis. By the end of 2024-2025 the college has to be shifted to own premises at Sakharale campus with all latest facilities required for student of Sugar Technology.

II. Teaching Learning and evaluation process:

a). Transparent Admission Process

1. The college has a well-defined, transparent admission process. Admission will be given on the basis of merit coupled with Reservation policy and will continue the same process in future too.
2. Wide publicity will be given through the college website regarding admission process, which will be purely on merit basis.
3. Merit list will be as per norms of government policy and reservation norms will be strictly followed.

b). Monitoring of Teaching-learning Process

- i). immediately after the admission, the students will be evaluated on the basis of their basic Learning performance and the faculty will prepare strategies to meet different needs of the Learners and to bring them on common platform. Weak students shall be given extra coaching & advance learners will be provided with some extra learning facility to prepare for the competitive exams.
 - ii). Students' centric teaching system is to be emphasized.
 - iii). Introduction of job-oriented programmes in collaboration with industrial partners, the college Wants to introduce innovative job-oriented certificate courses and advanced certificate & diploma Programmes. IQAC of the college is to decide the focused academic area where employment potential lies.
 - iv). Attendance regularity of students: a) Attendance of student for each lecture shall be maintained by obtaining signature in the prescribed format and University norms will be strictly followed. In order to minimize attendance default, technology is to be used to inform periodically students and parents in time.
b) Special counselling of defaulter students with their parents will be undertaken well in advance to avoid the possibility of drop out.
- c) Recognition of Merits:** Academic performance of students and achievements of faculty shall be recognized by organizing felicitation ceremony.



- d) Motivating Lectures:** Expert lectures of guest faculty from various Industry linkages will be organized to broaden the knowledge horizon of learners.
- e) Encouragement to Students:** All the departments will be encouraged to conduct the activities in line with their subject expertise. Students will be encouraged to undertake socially responsible activities to make an impact on the society.
- f) Discipline in Teaching-Learning Process:** Academic Calendar Annual prospectus printed in April every year will contain calendar for academic activities. Co-curricular and extra-curricular activities during the academic year are to be well planned.
- g) Academic and co-curricular work:** The academic and co-curricular related work will be allocated among the staff by constituting different committees and associations. The faculty will be promoted to use ICT based Teaching techniques. At least 25 % lectures will be conducted using ICT.
- h) Motivation for Research:** Research promotion Cell in the college must have an enabling Environment for reference books, subject related good quality reference books, Sufficient PCs with internet access for the completion of projects and research work have to be made available for students and faculty. The centre of atmosphere is to motivate teachers and students to undertake research activities such as preparation of projects, publication of research papers in reputed journals and participate and present the research papers in seminars / workshops / conferences.
- i) Strengthening of Innovations in Teachers Quality:** The College shall have to make continuous efforts to appoint qualified teachers as per UGC norms and if such candidates are not available teachers will be appointed on temporary basis in order to avoid the academic loss of students. Seminars/Workshops /Faculty Development Programmes shall be organized at least one programme per year. Deputation of faculty to attend Seminars/Workshops / conference / Faculty Development Programmes shall be incorporated with duty leave.
- j) Introduction of Innovations in Evaluation Process:** The college will continue to strengthen the evaluation process, where student's academic performance will be evaluated continuously by conducting tests, assignments, presentations, projects, viva- voce, term/ semester examinations, etc. Examination results will be analysed subject-wise in the meetings and discussions shall be made for future improvement. An open day has to be kept to discuss the queries of student in exam papers. The college will strengthen evolve the system of categorization of students on the basis of their performance and related aspects into slow, medium and advanced learners. Students with poor performance in terminal/primary examinations will be counseled and special

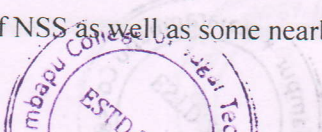
lectures will be arranged to bring them in main stream.

III. Research and Extension

1. The college has to start a Research & development department.
2. The regular meetings will be conducted of this R& D department.
3. Conduct expert lectures related to sugar industry every year.
4. The college will continue to organize the workshops / seminars / training programmes for preparation of proposals for minor and major research projects.
5. Academic infrastructure such as instruments, laboratories, ICT facility. Library. INFLIBNET and other requirements, as per needs for carrying out research activity will be developed.
6. The college will continue to make an effort to promote research in universities, industries and institutes.
7. The college will continue to appreciate and to recognize the teachers on successful completion of research projects, research degree and research publications.
8. The college will continue to appreciate and to recognize the students who achieve meritorious places at District, University, State and National level research competitions/research activities.
9. The college will continue to depute the teachers for research seminars / workshops and training.

Extension:

1. The college will strengthen NSS units.
2. Constantly innovative outreach programmes will be organized by different department with involvement of students.
3. The college will provide help in maintaining the law and order during festivals to the Police Department with the help of department of NSS.
4. Continuous efforts have to be made to help the farmers for the improvement in yield of sugarcane. Also make aware the farmers for the pesticides required for the diseases of sugarcane.
5. Trash management plan has to be explained to the farmers.
6. Library facility will continue to be extended to alumni as well as needy students of the nearby areas.
7. NSS unit will maintain Blood Donors' diary for emergency.
8. College premise will be made available to conduct the examinations of government agencies like railways, Post and Telegrams, LIC etc.
9. Awareness programmes on health hygiene and personal sanitation, electrical safety, soil testing, Environment, cleanliness campaign, energy and environmental conservation campaign and tree Plantation, at the adopted village of NSS as well as some nearby villages will be organized.



Internal Complaint Cell, Anti Ragging Committee.

8. Encouraging faculty to complete Ph.D.
9. Maintaining good rapport with university and government agencies

VII). Innovations and Best Practices

1) Environment Consciousness

- a) Every day college to ensure that it has a clean campus.
- b) The college will promote eco-friendly practice like no vehicle day, green campus, plastic free campus and will achieve paper less administration.
- c) The College should undertake regularly green audit after every two years.
- d) Energy conservation have to be made by reducing electricity consumption through installation of LED bulbs.
- e) The college will install more vermiform post units to get bio- fertilizer.
- f) In new campus campaign for no plastic zone and rain water harvesting plan to be introduced.
- g) The college will be self-sufficient in water by adopting rain water harvesting.

2) Innovations

- a) The college will encourage innovative practices in the field of teaching –learning strategies.
- b) The college will encourage innovative practices in various extra and co -curricular activities through reshuffling committees in a span of every 3 years.
- c) Innovative ideas are to be shared to farmers to help them for getting more yield of sugarcane.
- d) The concept of alternate crops of sugarcane for production of ethanol are to be promoted to the farmers to improve their economic conditions.

3) Best Practices: The college will continue the Best practices of

- a) Production of Bio-fertilizers & Bio-pesticides should be increased & popularized among farmers.
- b) One student one tree programme should be continued for next five years at different locations.
- c) Rain water harvesting is to be followed and collected water has to be used for day-to-day use.
- d) Introducing contributory Medical Insurance to class IV employees from 2023 – 24.

