



HBSU

Dr. Homi Bhabha State University

DR. HOMI BHABHA STATE UNIVERSITY, MUMBAI



ANNUAL REPORT ACADEMIC YEAR 2019-20

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Dr. Homi Bhabha State University, Mumbai

ANNUAL REPORT

Academic Year 2019-20

**The Institute of Science, 15, Madame Cama Road, Fort,
Mumbai-400032 (Maharashtra) India.**



SHRI. BHAGAT SINGH KOSHYARI
Hon'ble Chancellor, Dr. Homi Bhabha State University &
Hon'ble Governor of Maharashtra State



SHRI. UDAY SAMANT
Hon'ble Minister of Higher and Technical Education,
Government of Maharashtra



PROF. SUHAS PEDNEKAR

Vice-Chancellor



PROF. VIJAY D. MENDHULKAR

Registrar

Executive Summary of the Annual Report 2019-2020

The Annual Report for the academic year 2019-2020 offers a comprehensive overview of the academic, administrative, and developmental activities undertaken by Dr. Homi Bhabha State University (HBSU). Structured into two main sections for clarity, the report highlights the University's progress and milestones during this period.

Part 1: University Authorities and Governance Bodies

This section outlines the governance structure of the University, detailing:

- **University Authorities:** The Management Council, Academic Council, and other statutory bodies that provide strategic direction.
- **Deans of Faculties:** Academic leaders responsible for maintaining academic standards across various disciplines.
- **Officers of the University:** Administrative officials who ensure the efficient operation of the institution.

Part 2: Constituent Colleges, Institutes, and Programs

This section provides an overview of the academic and infrastructural developments at the University's constituent colleges:

- **The Institute of Science:** Serving as the lead institute, renowned for its academic and research excellence.
- **Elphinstone College:** A prestigious institution with a rich legacy of educational achievement.
- **Sydenham College of Commerce and Economics:** A center of excellence in commerce and business education.
- **Government Secondary Training College:** A institution for teacher education and training.

The section also highlights the wide range of programs offered by the University, emphasizing their relevance to modern academic trends and industry demands.

Facilities and Innovative Programs

The University made significant progress in upgrading its infrastructure and academic resources, including:

- **Computer Centre:** State-of-the-art facilities promoting digital literacy and advanced computing.
- **Library:** A comprehensive library offering both physical and digital resources to support academic growth.
- **Sports Facilities:** Infrastructure supporting student fitness and sports activities.
- **UGC Human Resource Development Centre:** Initiatives aimed at faculty development and capacity building.
- **Hostels and Health Centre:** Quality facilities ensuring student welfare through adequate accommodation and healthcare services.

Major Achievements and Milestones

The report highlights the major accomplishments and contributions of the University and its constituent colleges, including:

- Research initiatives, publications, and academic advancements.
- Organization and participation in international seminars and workshops.
- Notable awards and honors received by faculty and students.
- Institutional activities and accomplishments across the University.

University Overview

Dr. Homi Bhabha State University was established in 2019 as Maharashtra's first Cluster University under the Rashtriya Uchchatar Shiksha Abhiyan (RUSA). It comprises four prestigious institutions:

1. The Institute of Science, Mumbai (Lead Institute)
2. Elphinstone College, Mumbai
3. Sydenham College of Commerce and Economics, Mumbai
4. Government Secondary Training College, Mumbai

The University operates as an independent degree-granting entity with its own rules and regulations, focusing on academic excellence, research, and innovation.

Vision and Features

The establishment of HBSU aims to:

- Optimize resources across its constituent colleges.
- Provide students with diverse, flexible learning options within a student-friendly ecosystem.
- Offer undergraduate and postgraduate programs under the Choice-Based Credit System (CBCS), allowing students to choose courses across colleges.
- Foster dynamic, demand-driven programs while promoting co-curricular activities for holistic student development.
- Develop contemporary infrastructure to enhance the quality of education.

Acknowledgments

The successful preparation of this report was made possible through the support and collaboration of various stakeholders, including:

- The Honorable Vice-Chancellor, Prof. Suhas Pednekar, for his leadership and guidance.
- The Deans of Faculties, Heads of Departments, and Principals of Constituent Colleges for their invaluable contributions.
- All stakeholders of the University who have shaped the institution's progress.

Committee for Finalizing the Annual Report

1. Dr. Jairam Khobragade – Dean, Faculty of Science & Technology
2. Dr. Sangita Pakade – Dean, Faculty of Commerce & Management
3. Dr. Madhuri Kagalkar – Dean, Faculty of Humanities
4. Dr. Urmila Atul Paralikar – Dean, Faculty of Interdisciplinary Studies
5. Dr. Shirniwas Kulkarni – Director, Innovation, Incubation & Linkages

Publication Details

- **Published by: Prof. Vijay Mendhulkar, Registrar**
- **Chairperson:** Annual Report Committee

This Annual Report serves as a testament to Dr. Homi Bhabha State University's ongoing commitment to excellence in education, innovation, and community engagement.



Dr. Homi Bhabha State University

DR. HOMI BHABHA STATE UNIVERSITY, MUMBAI

ANNUAL REPORT

Academic Year 2019-20

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INTRODUCTION

Dr. Homi Bhabha State University (HBSU), Mumbai, has emerged as a leading institution dedicated to providing quality education, fostering innovation, and promoting holistic development. As one of the premier centers of learning in India, the university has consistently worked towards its mission of academic excellence, research-driven teaching, and community engagement. The 2019-2020 academic year marked a significant chapter in HBSU's journey, showcasing remarkable progress in areas such as governance, research, faculty development, and student engagement.

The academic year 2019-2020 was characterized by strategic initiatives and leadership appointments that laid the foundation for future growth. With the appointment of Prof. Suhas Pednekar as Vice-Chancellor and Prof. Vijay Mendhulkar as Registrar, HBSU has strengthened its leadership and governance. This period also saw the formation of essential committees aimed at enhancing academic processes, financial transparency, and resource management.

In its commitment to advancing research and innovation, HBSU has invested in state-of-the-art laboratories and academic infrastructure, providing a platform for students and faculty to engage in cutting-edge work. The university has also placed a strong emphasis on faculty development, organizing various programs designed to enhance teaching methodologies and leadership capabilities.

Moreover, HBSU continues to focus on the holistic development of its students. By offering numerous extra-curricular activities, internships, and career readiness programs, the university ensures that students graduate not only with academic knowledge but also with the skills needed to succeed in the professional world.

As the university moves forward, the focus remains on maintaining its reputation for academic excellence, expanding research collaborations, and furthering its mission to serve society through education and innovation. The 2019-2020 academic year stands as a testament to HBSU's commitment to these ideals and sets the stage for continued success in the years to come.

PART 1 - UNIVERSITY AUTHORITIES AND BODIES

Members of University Authorities & Bodies

Designation	Name
Hon. Chancellor of the University	Shri. Bhagat Singh Koshyari, Hon'ble Governor of Maharashtra
Vice Chancellor of the University	Prof. (Dr.) Suhas Pednekar
Registrar of the University	Prof. Vijay Mendhulkar
Director, Board of Examinations & Evaluation	Dr. Nikita Naik
Director, Innovation, Incubation & Linkages	Dr. Shailendra Deolankar (25/07/2019 to 19/05/2020) Dr. Shriniwas Kulkarni (20/05/2020 to till date)
Finance and Accounts Officer	Smt. Madhavi Ingole, University of Mumbai
Dean, Faculty of Science and Technology	Dr. Jairam Khobragade
Dean, Faculty of Commerce and Management	Dr. Sangita Pakade
Dean, Faculty of Humanities	Dr. Madhuri Kagalkar
Dean, Faculty of Interdisciplinary Studies	Dr. Urmila Paralikar
Director, Student Development	Dr. Vilas Padhye
Director, Knowledge Resource Centre	Dr. Selby Jose
Librarian	Shri. Unmesh Nangre
Director, Lifelong Learning and Extension	Dr. Anil Chougule
Director, Sports and Physical Education	Dr. Rajendra Lolage (25/09/2019 to 26/01/2020) Mr. Pritesh Kalan (27/01/2020 to till date)
Director, National Service Scheme (NSS)	Dr. Shrinivas Dhure

Annual Report for the Academic Year 2019-2020

Introduction:

The academic year 2019-2020 at Dr. Homi Bhabha State University (HBSU) marked a significant period of growth, development, and academic excellence. Throughout the year, several appointments, committees, and initiatives were implemented to strengthen the university's academic and administrative frameworks. This report highlights appointments, academic developments, infrastructural advancements, and initiatives that shaped the year.

I. Appointments:

1. Registrar:

- **Dr. Vijay Mendhulkar** (25/07/2019): Dr. Mendhulkar, Professor at The Institute of Science, Mumbai, was appointed as the Registrar of Dr. Homi Bhabha State University. His leadership and organizational skills have been instrumental in improving administrative efficiency, compliance, and overall university operations.

2. Director of Innovation, Incubation & Linkages:

- **Dr. Shailendra Deolankar** (25/07/2019): Dr. Deolankar, Associate Professor at the Government Vidarbha Knowledge Science Institute, Amravati, was appointed as the Director of Innovation, Incubation & Linkages. His efforts have been central in fostering industry connections, innovation, and research at the university.

3. Director, Board of Examinations & Evaluation:

- **Dr. Nikita Naik**, (25/07/2019): Dr. Naik, Associate Professor, Elphinstone College, Mumbai was appointed as the Director of the Board of Examinations & Evaluation. Dr. Naik's role has been crucial in overseeing examinations, evaluations, and assessments across disciplines.

4. Finance and Accounts Officer:

- **Smt. Madhavi Ingole** (25/07/2019): Smt. Ingole, University of Mumbai was appointed as the Finance and Accounts Officer. Her role is crucial in ensuring financial transparency, accountability, and efficient resource allocation.

5. Director of Sports & Physical Education:

- **Dr. Rajendra Lolage** (25/09/2019): Dr. Lolage Elphinstone College, Mumbai was appointed as Director of Sports & Physical Education. Dr. Lolage has contributed to the enhancement of sports facilities and student participation in extracurricular activities.

6. Coordinator of NSS (National Service Scheme):

- **Dr. Srinivas Dhure** (25/09/2019): Dr. Dhure, Sydenham College was appointed as the Coordinator of NSS. Dr. Dhure has played an instrumental role in promoting community service and social responsibility among students.

7. Librarian:

- **Shri. Unmesh Nangre** (25/09/2019): Appointed as the HBSU Librarian, Shri Nangre has contributed significantly to the development of the university's library services and resources.

8. Director, Lifelong Learning & Extension:

- **Dr. Anil Chougule** (25/09/2019): Dr. Chougule, Associate Professor, Sydenham College was appointed as Director, Lifelong Learning & Extension. Dr. Chougule's leadership furthered the university's adult education and community outreach programs.

9. Director of Student Development:

- **Dr. Vilas Padhye** (16/11/2019) was appointed as Director of Student Development. His responsibilities include overseeing the welfare programs for students, mentorship initiatives, and career counseling services, which are vital for improving the overall student experience at the university.

10. Director of Innovation, Incubation & Linkages:

- **Dr. Shriniwas Kulkarni** (04/01/2020) was appointed as Director of Innovation, Incubation & Linkages, continuing his pivotal role in leading the university's efforts to foster research, innovation, and industry collaboration.

11. Deans of Faculties:

- **Faculty of Science & Technology:** Dr. Jairam Khobragade (17/10/2019)
- **Faculty of Humanities:** Dr. Madhuri Kagalkar (17/10/2019)
- **Faculty of Interdisciplinary Studies:** Dr. Urmila Paralikar (17/10/2019)
- **Faculty of Commerce & Management:** Dr. Sangeeta Pakade (17/10/2019)

The appointment of deans contributed to the strengthening of academic governance and faculty development across disciplines.

II. University Governance:

1. Management Council:

The Management Council, the university's highest governing body, has been instrumental in shaping the university's policies and decisions. The Management Council, appointed on **22/05/2020**, consisted of distinguished members, including the Vice-Chancellor, Hon. Chancellor's nominees, and other esteemed faculty members such as:

Sr. No.	Name	Designation		Category
1	Vice-Chancellor	Chairperson	Dr. Homi Bhabha State University	Chairperson
2	Dr. Avinash Dalal		Hon. Chancellor's nominee	Member
3	Dr. Madhuri Kagalkar	Principal	Elphinstone College, Mumbai	Member
4	Dr. Jayram Mulchand Khobragade	Director	Institute of Science, Mumbai	Member
5	Dr. Vasudha Kamat	Ex-Vice-Chancellor	SNDT University, Mumbai	Member
6	Prof. M. M. Salunkhe	Vice-Chancellor	Bharti Vidyapeeth (Deemed University), Pune	Member
7	Dr. Shrinivas Samant	Professor, Chemistry Department	Institute of Chemical Technology, Mumbai	Member
8	Dr. Urmila Atul Paralikar	Principal	Secondary Training College, Mumbai	Member
9	Dr. N. S. Pandharikar	Assistant Professor	Sydenham College, Mumbai (Open)	Member
10	Dr. Balasaheb Kamble	Assistant Professor	Elphinstone College, Mumbai (S.C.)	Member
11	Shri. Jery Pinto	Ex-student	Elphinstone College, Mumbai	Member
12	Miss. Suman Bachate	Student	Institute of Science, Mumbai	Member
13	Prof. Vijay Mendhulkar	Registrar		Member Secretary

2. Academic Council:

The Academic Council plays a pivotal role in shaping the university's academic policies and ensuring that the curricula meet the highest standards. The Academic Council, formed on **22/05/2020**, played a vital role in shaping the academic policies and decisions, with members including senior faculty from multiple disciplines and institutions.

Sr. No.	Name	Designation		Category
1	Vice-Chancellor	Chairperson	Dr. Homi Bhabha State University	Chairperson
2	Dr. Jayram Mulchand Khobragade	Director	Institute of Science, Mumbai	Member
3	Dr. Sangita Pakade	Principal	Sydenham College, Mumbai	Member
4	Dr. Madhuri Kagalkar	Principal	Elphinstone College, Mumbai	Member
5	Dr. Urmila Atul Paralikar	Principal	Secondary Training College, Mumbai	Member
6	Dr. Ajay Choudhari	Professor, Head of Department (Physics)	Institute of Science, Mumbai	Member
7	Dr. Vilas Padhye	Assistant Professor	Elphinstone College, Mumbai	Member
8	Dr. Minakshi Sagdev	Assistant Professor	Elphinstone College, Mumbai	Member
9	Dr. Aparna Saraf	Associate Professor	Institute of Science, Mumbai	Member
10	Shri. M. R. Telgote	Assistant Professor	Sydenham College, Mumbai (S.C.)	Member
11	Dr. Mrunalini Kagawade	Assistant Professor	Elphinstone College, Mumbai (Open)	Member
12	Dr. Amey Bhagwat	Associate Professor	Center for Excellence in Basic Sciences, Mumbai University	Member
13	Dr. Sugra Chunawala	Dean and Professor	Homi Bhabha Science Education Center, Tata Institute of Fundamental Research, Mumbai	Member
14	Dr. A. K. Tyagi	Scientist	Bhabha Atomic Research Center, Mumbai	Member
15	Shri. Rajiv Poddar	Ex-student	Sydenham College, Mumbai	Member
16	Miss. Suman Bachate	Student	Institute of Science, Mumbai	Member
17	Prof. Vijay Mendhulkar	Registrar		Member Secretary

III. Financial and Administrative Developments:

1. Purchase Committee:

- An **Ad-hoc Purchase Committee** was constituted under the chairmanship of the Hon. Vice-Chancellor, **Prof. Suhas Pednekar**, to oversee the university's procurement processes, ensuring transparency and cost-efficiency.

Chairman:

- **Prof. Suhas Pednekar**
Vice-Chancellor, Dr. Homi Bhabha State University, Mumbai - 400 032

Members:

- **Prof. Vijay Mendhulkar**
Registrar, Dr. Homi Bhabha State University, Mumbai - 400 032
- **Smt. Madhavi Ingole**
Finance & Accounts Officer, Dr. Homi Bhabha State University, Mumbai - 400 032
- **Dr. Jairam M. Khobragade**
Director, Institute of Science, Mumbai - 400 032
- **Dr. Madhuri Kagalkar**
Principal, Elphinstone College, Mumbai
- **Dr. Sangita Pakade**
Principal, Sydenham College of Commerce and Economics, Mumbai
- **Dr. Urmila Paralikar**
Principal, Secondary Training College, Mumbai - 400 001

2. Finance & Accounts Committee:

- The **Ad-hoc Finance & Accounts Committee**, chaired by the Hon. Vice-Chancellor, **Prof. Suhas Pednekar**, played a crucial role in overseeing the financial operations of the university, ensuring fiscal responsibility and effective resource allocation.

Chairman:

- **Prof. Suhas Pednekar**
Vice-Chancellor, Dr. Homi Bhabha State University, Mumbai - 400 032

Members:

- **Prof. Vijay Mendhulkar**
Registrar, Dr. Homi Bhabha State University, Mumbai - 400 032
- **Smt. Madhavi Ingole**
Finance & Accounts Officer, Dr. Homi Bhabha State University, Mumbai - 400 032
- **Dr. Jayram M. Khobragade**
Director, Institute of Science, Mumbai - 400 032
- **Dr. Madhuri Kagalkar**
Principal, Elphinstone College, Mumbai
- **Dr. Sangita Pakade**
Principal, Sydenham College of Commerce and Economics, Mumbai
- **Dr. Urmila Paralikar**
Principal, Secondary Training College, Mumbai - 400 001

IV. Committees and Panels:

1. Committee for 2f and 12B Certificate:

- **Constitution:** Under the leadership of Prof. Yuvraj Malghe (Coordinator) and members including Dr. Riteshkumar Singhal, Dr. B.G. Khade, and Dr. Rupesh Raut, the committee worked diligently to ensure compliance with UGC norms and enhance the university's recognition.

2. Board of Studies:

- **Constitution of Board of Studies:** The university constituted Boards of Studies for various disciplines, fostering academic excellence, curriculum development, and innovation.

3. RUSA Project Monitoring Committee:

- **Constitution:** The committee, headed by Prof. Vijay D. Mendhulkar, Registrar, and comprising senior faculty members, oversaw the effective implementation and monitoring of the RUSA projects to enhance infrastructure and academic resources.
-

V. Academic Developments:

1. Ph.D. Supervisor/Guide Recognition:

- The following professors and associate professors were recognized as Ph.D. supervisors:
 1. **Prof. Vijay Damodar Mendhulkar** (Botany and Biotechnology)
 2. **Prof. Ajay Sudam Chaudhary** (Physics)
 3. **Prof. Ranjitsingh Nimbalkar** (Zoology)
 4. **Dr. Pravin Sadashiv More** (Physics)
 5. **Dr. Rohidas Bhanudas Kale** (Physics)
 6. **Dr. Shrinivas Bhausaheb Kulkarni** (Physics)
 7. **Dr. Alka Chougale** (Zoology)
 8. **Dr. Manisha Nitin Kulkarni** (Zoology)
 9. **Dr. Rupendra Sachidanand Jadhav** (Microbiology)
 10. **Dr. Anil Anant Pedgaonkar** (Mathematics)
 11. **Dr. Selby Jose** (Mathematics)
 12. **Dr. Ratnamala Prakash Sonawane** (Chemistry)
 13. **Dr. Aparna Amit Saraf** (Botany)
 14. **Dr. Umesh Kakde** (Botany)
 15. **Dr. Manohar Padul** (Biochemistry)
 16. **Dr. Anamika Vishnu Kadam** (Physics)
 17. **Dr. Vinayak Vishnu Parab** (Zoology)
 18. **Dr. Rajesh Warluji Raut** (Botany)
 19. **Dr. Vishal Banewar** (Chemistry)
 20. **Dr. Ravibabu Tayade** (Chemistry)

This recognition enabled a more robust research framework at the university.

2. Ph.D. Courses:

- The admission process for Ph.D. courses in science disciplines was initiated in January 2020. This step was pivotal in enhancing research opportunities and academic depth at the university.
-

VI. Arrangement of Terms

Faculty of Humanities (Arts): UG Courses

- **For S.Y. / Semester III / Semester IV**
 - First Term: 8th August 2020 – 24th December 2020
 - Second Term: 2nd January – 2nd May 2021
- **For F.Y. / Semester I / Semester II**
 - First Term: 1st October 2020 – 15th January 2021
 - Second Term: 1st February – 31st May 2021
- **Vacations:**
 - Diwali Vacation: 12th November – 18th November (including both days)
 - Winter Break: 25th December 2020 – 1st January 2021 (including both days)
 - Summer Vacation: 3rd May – 31st May 2021

Faculty of Commerce and Management: UG Courses

- **For S.Y. / Semester III / Semester IV**
 - First Term: 8th August 2020 – 24th December 2020
 - Second Term: 2nd January – 2nd May 2021
- **For F.Y. / Semester I / Semester II**
 - First Term: 1st October 2020 – 25th January 2021
 - Second Term: 1st February – 31st May 2021
- **Vacations:**
 - Diwali Vacation: 12th November – 18th November (including both days)
 - Winter Break: 25th December 2020 – 1st January 2021 (including both days)
 - Summer Vacation: 3rd May – 31st May 2021

Faculty of Science: UG Courses

- **For S.Y. / Semester III / Semester IV**
 - First Term: 8th August 2020 – 24th December 2020
 - Second Term: 2nd January – 2nd May 2021
- **For F.Y. / Semester I / Semester II**
 - First Term: 1st October 2020 – 25th January 2021
 - Second Term: 1st February – 31st May 2021
- **Vacations:**
 - Diwali Vacation: 12th November – 18th November (including both days)
 - Winter Break: 25th December 2020 – 1st January 2021 (including both days)
 - Summer Vacation: 3rd May – 31st May 2021

Faculty of Humanities (Arts): PG Courses

- **For S.Y. / Semester III / Semester IV**
 - First Term: 8th August 2020 – 24th December 2020
 - Second Term: 2nd January – 2nd May 2021
 - Diwali Vacation: 12th November – 18th November (including both days)
- **For F.Y. / Semester I / Semester II**
 - First Term: 15th December 2020 – 31st March 2021
 - Second Term: 5th April 2021 – 31st July 2021
- **Vacations:**
 - Winter Break: 25th December 2020 – 1st January 2021 (including both days)
 - Summer Vacation: 3rd May – 31st May 2021

Faculty of Commerce and Management: PG Courses

- **For S.Y. / Semester III / Semester IV**
 - First Term: 8th August 2020 – 24th December 2020
 - Second Term: 2nd January – 2nd May 2021
 - Diwali Vacation: 12th November – 18th November (including both days)
- **For F.Y. / Semester I / Semester II**
 - First Term: 15th December 2020 – 31st March 2021
 - Second Term: 5th April 2021 – 31st July 2021
- **Vacations:**
 - Winter Break: 25th December 2020 – 1st January 2021 (including both days)
 - Summer Vacation: 3rd May – 31st May 2021

Faculty of Science: PG Courses

- **For Semester III / Semester IV**
 - First Term: 8th August 2020 – 24th December 2020
 - Second Term: 2nd January – 2nd May 2021
 - Diwali Vacation: 12th November – 18th November (including both days)
- **For Semester I / Semester II**
 - First Term: 15th December 2020 – 31st March 2021
 - Second Term: 5th April 2021 – 31st July 2021
- **Vacations:**
 - Winter Break: 25th December 2020 – 1st January 2021 (including both days)
 - Summer Vacation: 3rd May – 31st May 2021

VII. Conclusion:

Dr. Homi Bhabha State University (HBSU) experienced significant strides in the 2019-2020 academic year, marking a period of transformative growth. The university made administrative appointments, formed essential committees, and renewed its commitment to fostering research and student development. These strategic initiatives have positioned HBSU as a leading institution for academic excellence, innovation, and community service.

Highlights of the year include:

1. **Strategic Appointments:** The university focused on strengthening its leadership by making administrative appointments that contributed to effective governance and decision-making.
2. **Formation of Committees:** Important committees were established, ensuring robust academic, administrative, and research functions, contributing to the university's overall progress.
3. **Research and Innovation:** HBSU placed a renewed emphasis on research initiatives, encouraging innovation and fostering an environment where faculty and students can engage in groundbreaking work.
4. **Faculty and Student Development:** The university's focus on faculty development programs, along with student-centric initiatives, laid the foundation for holistic growth, enhancing the learning environment.

As a result, Dr. Homi Bhabha State University is poised for continued growth, driven by its dedication to providing world-class education while nurturing a dynamic and supportive environment for both students and faculty.

**PART 2 CONSTITUTENT
COLLEGE/INSTITUTE OF
UNIVERSITY**

2.1 THE INSTITUTE OF SCIENCE, MUMBAI (ISCM)



Institute of Science, Mumbai

The Institute of Science, Mumbai, originally known as the Royal Institute of Science (RIS), was established in 1920 by Royal Charter. Located in the heart of Mumbai's Central Business District, opposite the Chhatrapati Shivaji Maharaj Museum, the Institute occupies a heritage building that is beautifully illuminated at night. Due to its proximity to Churchgate Station and Chhatrapati Shivaji Terminus, the Institute is easily accessible from all corners of Mumbai.

Managed by the Government of Maharashtra, the Institute is a leading constituent of the Cluster University of Dr. Homi Bhabha State University, Mumbai. It is a premier, fully-fledged post-graduate centre for teaching and research in science. Since its inception in 1920, the Institute has built a stellar reputation for excellence in scientific research and education.

The research undertaken at the Institute focuses on addressing global challenges and driving innovation in the frontiers of science. The Institute actively engages in interdisciplinary and multi-institutional research projects, funded by various national agencies and industries. As an academic

institution, it has maintained high standards of research and teaching while fostering an environment conducive to the pursuit of scientific knowledge. Education, for the Institute, is a process of expanding ideas, and research is central to this process, embodying the core belief of the Institute's motto: *"It's good to seek out the causes of things."*

In recognition of its contributions, the Institute has been designated as a Center with Potential for Excellence by the UGC. It was reaccredited with an 'A' grade by the National Assessment and Accreditation Council (NAAC) in 2014. Furthermore, the Institute received the prestigious *Dainik Bhaskar National Education Leadership Award* for its leadership in educational development, innovation, and industry collaboration.

In 2015-16, under the Rashtriya Uchchatar Shiksha Abhiyan (RUSA) initiative, the Government of India sanctioned a proposal for the establishment of a Cluster University in Mumbai. The Institute has been designated as the lead institute, with three other state government colleges as constituent members of the Cluster University.

The Institute is committed to aligning its goals with the aspirations of its students and the needs of society. It strives to provide high-quality education while encouraging students to engage in co-curricular and extracurricular activities that enhance their multidimensional development in the modern world. Over the years, the Institute has seen its students achieve top ranks in university examinations. Notably, Ms. Khushbu Jain from the Department of Environmental Science was awarded a gold medal for securing the first rank among all university students in 2013-14. Additionally, Ms. Nithya Srinivasan and Ms. Prajakta D. Bhoite received the *President of India, Dr. Shankar Dayal Sharma Gold Medal* for their excellence in academics, extracurricular activities, and social service.

The Institute has also produced a distinguished array of alumni who have made significant contributions in various fields. Among them are renowned scientists such as Dr. Homi Bhabha, Wrangler V. V. Narlikar, Dr. B. M. Udgaonkar, Dr. M. G. K. Menon, and Dr. Shreeram Abhyankar. Prominent educationists like Padmabhushan Madhav Gadgil and Shri Madhav Chavan, as well as industrialists such as Mr. K. H. Gharda, Mr. K. J. Somaiya, Mr. D. M. Khatau, and Dr. Kiran Karnik (former CEO of NASSCOM), are also alumni of the Institute. Additionally, Prof. Ms. Varsha Gaikwad, former Honorable Minister for State, Department of Higher and Technical Education, Government of Maharashtra, completed her M.Sc. in Mathematics at the Institute from 1998 to 2000.

Data of the Institution

1. Name of the Institution

- **Name of the Institution:** The Institute of Science Mumbai
- **Name of the Head of the Institution:** Dr. Jairam Mulchand Khobragade
- **Designation:** Director
- **Does the institution function from its own campus?:** Yes
- **Phone No./Alternate Phone No.:** 02222829294
- **Mobile No.:** 9422810676
- **Registered Email:** iscmdirector@gmail.com
- **Alternate Email:** director@iscm.ac.in
- **Address:** 15 Madame Cama Road
- **City/Town:** Mumbai
- **State/UT:** Maharashtra
- **Pin Code:** 400032

2. Institutional Status

- **Affiliated/Constituent:** Constituent
- **Type of Institution:** Co-education
- **Location:** Urban
- **Financial Status:** UGC 2f and 12(B)

Additional Data of the Institution

1. Name of the Parent University

Name of the Affiliating University Dr. Homi Bhabha State University Mumbai

2. Name of the IQAC Coordinator

Name of the IQAC Coordinator Prof. (Dr.) Aparna A. Saraf

Phone No. 02222829294

Alternate Phone No. 02222829294

Mobile 9869357636

IQAC Email Address draparnasaraf@yahoo.co.in

Alternate Email Address draparnasaraf@iscm.ac.in

3. Website Address (Web Link of the AQAR – Previous Academic Year)

Website Address AQAR Web Link

4. Academic Calendar

Whether Academic Calendar prepared during the year? Yes

If yes, whether it is uploaded in the Institutional Website? Academic Calendar Link

5. Accreditation Details

Cycle Grade CGPA Year of Accreditation Validity From Validity To

Cycle 2 A	3.05	2014	05/05/2014	04/05/2019
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Here is the reformatted table with the content organized without changes:

Month	Sundays	Holidays	Working Days	Events/Activities
June 2019 (25 Days)	3 days (9th, 16th, 23rd)	0 day	21	Reopening Day: 6th June, First Staff Meeting: 7th June, ISAA: Structure of CBCS Syllabus by Prof. NV. Thakkar: 12th June, ISAA: Solid Waste Management Program: 13th June, International Yoga Day: 21st June, ISAA: Structure of CBCS Syllabus by Prof. NV. Thakkar: 21st June, Rajarshi Shahu Maharaj Jayanti: 26th June
July 2019 (31 Days)	4 days (7th, 14th, 21st, 28th)	0 days	27	Vasantao Naik Jayanti: 1st July, ISAA: "Facilitating Analytical Measurements through Application Focused Solutions" by Dr. Anil Nimkar: 16th July, ISAA: Campus to Corporate: Session II by Dr. Hemant Karkhanis: 18th July, Lokmanya Bal Gangadhar Tilak Jayanti: 23rd July
August 2019 (31 Days)	4 days (4th, 11th, 18th, 25th)	3 days (12th Aug - Bakri Eid, 15th Aug - Independence Day, 27th Aug - Parshi Navvarsh Din)	24	Annabhau Sathe Jayanti: 1st August, Krantisinha Nana Patil Jayanti: 3rd August, Zoology Dept: Field Visit to Girgaon Chowpati: 30th August
September 2019 (30 Days)	5 days (1st, 8th, 15th, 22nd, 29th)	8 days (2nd to 7th – Midterm break, 10th - Moharram, 12th - Anant Chaturdashi)	17	Biochemistry Dept: Workshop on Project Proposal Writing, Microbiology Dept: Workshop on Project Proposal Writing, Raje Umaji Naik Jayanti: 7th September, Zoology Dept: Visit to Pancham Aquaculture: 14th September, Zoology Dept: Zoological Colloquium- Guest Lecture: 20th September, ISAA: Workshop on P2P by Dr. Razia Manjrekar: 21st September, Pandit Dindayal Upadhyay Jayanti: 25th September, Chemistry Dept: Dr. B.C. Haldar Memorial Lecture: 27th September
October 2019 (19 Days)	3 days (6th, 13th, 20th)	2 days (2nd - Mahatma Gandhi Jayanti, 8th - Dussehra)	19	Mahatma Gandhi Jayanti: 2nd October, Lal Bahadur Shastri Jayanti: 2nd October, Zoology Dept: Visit to TIFR/NIRRH: 3rd October, ISAA: Talk on Cloudsource by

Month	Sundays	Holidays	Working Days	Events/Activities
				GOOGLE: 5th October, Botany Dept: Short Excursion: 12th October, ISAA: Nature Walk: Mahim Nature Park: 12th October, Maharshi Valmiki Jayanti: 13th October, Dr. APJ Abdul Kalam Jayanti: 15th October, Botany Dept: Discover Science: Lecture: 15th October, Physics Dept: Physics Society Program: 21st October
Diwali Vacation	-	25th October to 14th November	-	-
November 2019 (16 Days)	2 days (17th, 24th)	0 days	14	Indira Gandhi Jayanti & Rashtriya Ekatmata Din: 19th November, ISAA: Workshop on Analytical Instruments: 18th to 25th November, Sanvidhan Divas: 26th November, Botany Dept: Instrumentation Workshop: 27th November, Microbiology Dept: NET-SET Workshop
December 2019 (31 Days)	4 days (1st, 8th, 15th, 22nd)	7 days (25th - Christmas, 26th to 31st – Winter break)	20	Botany Dept: Dept Fest “PLANTA”: 6th-7th December, Chemistry Dept: Joshi-Soman Memorial Lecture: 13th December, ISAA: Invited Talk: 14th December, Microbiology Dept: Workshop on ‘R’ Programming, Microbiology Dept: Workshop on ‘Latex’ Programming, Chemistry Dept: SET/NET Workshop: 18th to 20th December, Botany Dept: Long Excursion: 19th to 24th December
January 2020 (31 Days)	4 days (5th, 12th, 19th, 26th)	2 days (1st - Winter break, 26th - Republic Day)	25	Physics Dept: National Conference: 9th & 10th January, ISAA: Invited Talk: 11th January, Mathematics Dept: One Day Workshop/Conference: 14th January, Zoology Dept: Workshop on Aquarium Development: 24th January, Republic Day celebration: 26th January, Biochemistry Dept: Workshop – Column Chromatography
February 2020 (28 Days)	4 days (2nd, 9th, 16th, 23rd)	2 days (19th - Chhatrapati Shivaji Maharaj Jayanti, 21st - Mahashivratri)	23	ISAA: Invited Talk: 8th February, Zoology Dept: Study tour to Ratnagiri: 8th to 11th February, Chemistry Dept: National Conference on Recent Trends in Chemistry: 24th & 25th February, National Science Day Celebration:

Month	Sundays	Holidays	Working Days	Events/Activities
				28th February, Microbiology Dept: Workshop on Molecular & Immunological Techniques
March 2020 (31 Days)	5 days (1st, 8th, 15th, 22nd, 29th)	3 days (10th - Holi, 25th - Gudi Padwa)	24	Chemistry Dept: Industrial Visit: 6th March, ISAA: Invited Talk: 14th March, Mathematics Dept: Workshop/Conference: 20th March
April 2020 (30 Days)	4 days (5th, 12th, 19th, 26th)	4 days (2nd - Ram Navmi, 6th - Mahavir Jayanti, 10th - Good Friday, 14th - Dr. Babasaheb Ambedkar Jayanti)	25	-
May 2020 (30 Days)	0 days	1 day (1st – Maharashtra Divas)	1	-

First Term (6th June 2019 to 24th October 2019)

- **Total Available Days:** 127 days
- **Sundays:** 19 days
- **Government Holidays:** 7 days
- **Total Working Days Available:** 108 days
- **Mid-Term Break:** 2nd September 2019 to 7th September 2019 (6 days)
- **Winter Vacation:** 25th October 2019 to 14th November 2019 (21 days)

Second Term (15th November 2019 to 2nd May 2020)

- **Total Available Days:** 166 days
- **Sundays:** 23 days
- **Government Holidays:** 11 days
- **Total Working Days Available:** 132 days
- **Summer Vacation:** 3rd May 2020 to 7th June 2020

Abstract:

- **Total Days Available for the College:** 293 days
 - **Sundays:** 42 days
 - **Government Holidays:** 18 days
 - **Mid-Term Break:** 6 days
 - **Diwali Vacation:** 21 days
 - **Summer Vacation:** 35 days
 - **Total Working Days for Sessions (I + II):** 240 days
-

Plan of Action for Quality Enhancement and Achievements in the Academic Year

The following initiatives were meticulously planned at the beginning of the academic year to foster Quality Enhancement across various domains, and the corresponding outcomes were successfully achieved by the end of the academic year:

1. Research & Innovation Initiatives

- **Lecture by Dr. Anil Nimkar (16th July 2019):**
 - **Topic:** *Facilitating Analytical Measurements through Application-Focused Solutions - Opportunities.*
 - **Objective:** To explore innovative opportunities in the field of analytical measurements and their practical applications. Dr. Nimkar provided insights into how these measurements can drive research and industry progress.
- **Workshop on Analytical Instruments (2nd–9th December 2019):**
 - **Focus:** Hands-on exposure to a range of analytical instruments.
 - **Outcome:** Faculty and students gained practical skills with state-of-the-art instruments, enabling them to understand and utilize these tools for academic and research purposes. The workshop helped bridge the gap between theory and practice, making the learning process more application-oriented.

2. Curricular Development

- **Syllabus Design under CBCS (Choice-Based Credit System):**
 - **12th June 2019:** A session was conducted by **Prof. Thakkar**, providing an overview of the new syllabus structure under the CBCS framework.
 - **21st June 2019:** A collaborative session by **Prof. Thakkar** and **Dr. Samant** for faculty members, focusing on the design of the M.Sc. program syllabi.
 - **Outcome:** This initiative enabled a streamlined and updated curriculum, ensuring it aligned with industry trends and academic best practices, enhancing the quality of education provided to students.

3. Teaching, Learning, and Evaluation

- **Talk by Prof. N.V. Thakkar (19th November 2019):**
 - **Topic:** *Evaluation Reforms in Higher Education for Better Academic Standards.*
 - **Focus:** Discussing the importance of reforming evaluation systems in higher education to enhance academic performance and standards.
 - **Outcome:** The session encouraged faculty to adopt innovative evaluation methods, focusing on a more holistic approach to student assessment, promoting both academic rigor and critical thinking.

4. Guest Lectures and Workshops

- **Campus to Corporate (Session Two) (18th July 2019):**
 - **Speaker:** Dr. Hemant Kharkhanis
 - **Topic:** *Mangroves and Their Habitats.*
 - **Outcome:** Students gained an understanding of the ecological significance of mangroves and their vital role in preserving biodiversity.
 - **"Potential 2 Performance" Workshop (21st September 2019):**
 - **Facilitator:** Dr. Razia Manjrekar
 - **Focus:** Personal growth and coaching for graduate students.
 - **Outcome:** The workshop equipped students with the tools for self-improvement, leadership, and career development, fostering a growth mindset.
 - **Municipal Solid Waste Management (27th September 2019):**
 - **Speaker:** Dr. Arun Sawant
 - **Topic:** *Waste-to-Energy Solutions.*
 - **Outcome:** This session educated students on sustainable waste management practices and emerging technologies in waste-to-energy solutions.
 - **Google Crowdsourcing Session (5th October 2019):**
 - **Facilitators:** Google Team
 - **Focus:** Introduction to the Crowdsourcing concept.
 - **Outcome:** Students were introduced to innovative crowdsourcing methodologies that contribute to data collection and problem-solving in global projects.
 - **Wildlife Research Update (5th December 2019):**
 - **Speaker:** Dr. Gautam Talukdar
 - **Topic:** *Ongoing Research at WII.*
 - **Outcome:** Students learned about cutting-edge research in wildlife conservation, inspiring future research pursuits in environmental science.
 - **World Wetland Day Talk (7th February 2020):**
 - **Speaker:** Mr. Stalin D.
 - **Topic:** *Wetland Conservation Challenges.*
 - **Outcome:** This session raised awareness about the critical issues related to wetland conservation, encouraging student involvement in environmental protection efforts.
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5. Departmental Events and Fests

- **PLANTA (13th–14th March 2020):**
 - **Event:** Intercollegiate Botanical Fest
 - **Theme:** *Hydroponics.*
 - **Outcome:** The fest showcased innovative approaches to sustainable farming practices, particularly hydroponics, engaging students in hands-on experiences with modern agricultural techniques.
- **Wilderness (4th–5th October 2019):**
 - **Focus:** Celebrating Wildlife Week with environmental themes.

- **Outcome:** The event featured environmental awareness programs, promoting ecological sustainability and wildlife conservation.
- **SIGMATICS 2020 (29th January 2020):**
 - **Event:** National Mathematics Day celebration
 - **Support:** DST and NCSCST
 - **Outcome:** The event helped promote mathematical sciences, offering a platform for students and faculty to discuss mathematical innovations and their applications in real-world scenarios.

6. Eco-Friendly Campus Initiatives

- **Zero Garbage Initiative:**
 - **13th June 2019:** Collaboration with Bajaj Electricals, led by **Dr. Sushma Ambadekar**.
 - **25th September 2019:** Follow-up survey conducted to assess the impact of the initiative.
 - **29th February 2020:** Awareness session on solid waste segregation and composting.
 - **Outcome:** These initiatives significantly reduced campus waste, raising awareness about sustainability practices and encouraging the adoption of eco-friendly behaviors among students and staff.
- **Alumni Medicinal Plant Garden:**
 - **Inauguration:** On 16th July 2019 by **Dr. Nimkar**.
 - **Outcome:** The garden serves as an ongoing learning resource for students, promoting the study of medicinal plants and contributing to campus sustainability.

7. Field Trips

- **Nature Trail at Maharashtra Nature Park (12th October 2019):**
 - **Guided by:** Alumnus **Dr. C.S. Lattoo**
 - **Focus:** Exploring local flora.
 - **Outcome:** The field trip provided students with a deeper understanding of local biodiversity, enhancing their practical knowledge of environmental science and plant life.

This comprehensive plan demonstrates the institution's commitment to fostering research, innovation, and sustainability through a variety of academic and extracurricular activities. The efforts made throughout the academic year have resulted in substantial progress in enriching the educational experience, promoting environmental consciousness, and enhancing student engagement in real-world issues. These initiatives have created a conducive learning environment that bridges academic knowledge with practical application, ensuring the holistic development of students.

Curriculum Planning and Implementation at the Institute of Science

At the Institute of Science, effective curriculum delivery is regarded as a critical responsibility, with a deep understanding of its impact on students' academic and professional futures. The institution follows a strategic and transparent approach to ensure the efficient implementation of the syllabus prescribed by the University of Mumbai as HBSU BoS is yet to be formed. This is achieved through various mechanisms outlined below:

1. Curriculum Governance

- **Adherence to Syllabus:** The Institute adheres strictly to the syllabus prescribed by the Board of Studies, ensuring alignment with university standards and academic requirements.
- **Faculty Involvement:** Faculty members are actively engaged in curriculum development by serving on the Board of Studies and its subcommittees, contributing their expertise to refine and update the curriculum in line with academic advancements and industry demands.

2. Academic Calendar Management

- **Adherence to University Calendar:** The Institute follows the academic calendar ensuring that all academic activities are conducted within the prescribed timeframes.
- **Departmental Oversight:**
 - **Heads of Departments (HODs):** HODs hold regular meetings to allocate workloads, assign subjects, plan departmental activities, and review the progress of the syllabus throughout the academic year.
 - **Director's Role:** The Director oversees the overall implementation of the curriculum, monitoring its execution through both formal meetings and informal discussions with HODs and faculty members, ensuring timely completion of syllabus objectives.

3. Time Table and Scheduling

- **Time Table Committee:** Each department forms a Time Table Committee responsible for preparing and finalizing the class schedules. This ensures that all subjects are taught within the academic year, with no overlapping or conflicts in timing.
 - **Display and Communication:** The finalized timetable is displayed on departmental notice boards and communicated to students, ensuring transparency and easy access.
- **Access to Syllabus:** To further facilitate student learning, students are provided with links to the university syllabus, making it readily accessible for reference and preparation.

4. Teaching Plans and Evaluation

- **Faculty Teaching Plans:** At the beginning of each academic year, faculty members are required to prepare detailed teaching plans that outline the course structure, topics, and assessment methods.
- **Monitoring and Evaluation:** The Heads of Departments (HODs) and the Internal Quality Assurance Cell (IQAC) oversee the periodic evaluation of teaching delivery to ensure that courses are taught effectively and on schedule. This includes reviewing faculty performance and course progress.
 - **Additional Classes:** When necessary, faculty members hold additional classes and practical sessions to cover topics comprehensively, ensuring that students receive the full scope of the syllabus. Detailed records of these sessions are maintained for future reference.

5. Laboratory Utilization

- **Optimized Laboratory Resources:** Laboratories are well-equipped with the latest tools and resources, designed to maximize practical learning and enhance students' hands-on experience.
- **Practical Journals:** Students are required to maintain practical journals, which are reviewed and certified by the faculty and HODs to track their progress and understanding.
- **Research Integration:** Research projects are integrated with practical courses to provide students with real-world research experience, helping them develop critical research skills and prepare for academic or industry challenges.

6. Innovative Teaching Aids and Methods

- **Dynamic Learning Tools:** The Institute uses a range of teaching aids including projectors, chalkboards, and audiovisual materials to create an interactive and engaging learning environment.
 - **Active Learning Methods:** Activities such as seminars, group discussions, quizzes, journal clubs, and case studies are regularly conducted to encourage active participation and deepen students' understanding.
 - **Field Visits and Industrial Tours:** Practical exposure is provided through field visits, industrial tours, and study tours, which enhance theoretical knowledge and give students a chance to observe real-world applications of their studies.
 - **Group Projects and Research:** Group projects foster teamwork, collaborative learning, and research aptitude, helping students develop essential skills for their future careers.
 - **Digital Tools:** Digital platforms such as YouTube, WhatsApp, and email are used for sharing resources, collaborating on projects, and facilitating knowledge transfer beyond the classroom.
 - **Guest Lectures and Expert Talks:** To enrich the curriculum, guest lectures, expert talks, and alumni guidance sessions are organized, providing students with insights from industry leaders and academic experts.

7. Library Resources

- **Comprehensive Library:** The Institute's library is well-stocked with both classic and contemporary books covering various subjects. The collection is regularly updated to support the changing needs of students and the academic community.
- **Dedicated Study Spaces:** The library includes dedicated study rooms for each subject, providing students with a quiet environment to engage with the course material and prepare for exams.
- **Streamlined Book Issue System:** The Institute operates an efficient book issue system, ensuring that students have access to the necessary resources for their studies.

8. Faculty Development and Support

- **Continuous Professional Development:** Faculty members are encouraged to attend orientation, refresher, and skill development courses to stay updated with the latest advancements in their respective fields. This ensures that the teaching staff remains knowledgeable and capable of delivering high-quality education.

This systematic and structured approach to curriculum planning and implementation reflects the Institute of Science's commitment to delivering a high standard of education. By leveraging strategic planning, modern teaching methods, resource optimization, and continuous faculty development, the Institute ensures that students receive a well-rounded and forward-looking education, equipping them for success in their academic and professional careers.

Stakeholder Feedback System

The Institute of Science has established a robust feedback mechanism for the academic year 2019-20 that is integral to improving teaching quality, identifying learning gaps, and fostering the overall development of students. This comprehensive approach emphasizes the importance of stakeholder involvement in enhancing the educational experience. Below is a detailed breakdown of the feedback system and its outcomes:

1. Student Feedback Process

The feedback process aims to assess various facets of teaching and learning. Feedback was collected annually from all students enrolled in Post Graduate Programs, covering multiple teaching-related parameters.

Parameters Assessed:

- **Subject Knowledge:** Assessing the depth and clarity of the instructor's knowledge.
- **Communication Skills:** Evaluating the effectiveness of the instructor's communication in conveying subject matter.
- **Sincerity and Commitment:** How dedicated and responsible the faculty member is towards their teaching.

- **Ability to Generate Interest:** The ability of the teacher to engage students and make the subject matter interesting.
- **Integration of Subject with the Environment:** How well the subject connects with real-world applications and current trends.
- **Integration with Other Courses:** Ensuring that the course content is aligned with and complements other courses in the curriculum.
- **Teacher Accessibility (In and Outside Class):** The availability of the teacher for student queries and support, both during and after class.
- **Evaluation Methods:** The fairness and transparency of evaluation methods, such as quizzes, assignments, and projects.
- **Encouragement of Class Participation:** The extent to which the teacher fosters an environment of active student participation.
- **Examination Preparation Guidance:** The level of support provided for exam preparation, including resources and strategies.
- **Teacher-Student Interaction:** The quality of interactions between the teacher and students, including feedback and support.
- **Performance Analysis:** Teachers' analysis of student performance and how it informs their teaching methods.
- **Impact of Internal Marks Valuation:** Assessing whether internal assessments are fair and contribute appropriately to final grades.
- **Career Prospect Guidance:** The extent to which faculty members guide students on career opportunities and professional development.
- **Overall Teacher Rating:** An overall evaluation of the teaching quality and effectiveness of the faculty.

Analysis:

A dedicated committee reviewed the feedback data, which was shared with the Director for further action. Discussions were held with individual faculty members to address specific feedback and initiate targeted improvements in teaching practices.

2. Feedback Utilization and Improvements

Data Analysis:

The collected feedback was analyzed using both qualitative and quantitative methods to identify areas where improvements could be made in teaching delivery, curriculum content, and student support.

Action Plan:

- **Addressing Inconsistencies in Teaching Practices:** Any inconsistencies in teaching methods or approach were addressed to ensure a more standardized and effective learning experience across all departments.
- **Faculty Development:** The feedback helped identify areas where faculty development was needed, leading to the implementation of workshops and training sessions to improve teaching effectiveness.

- **Curriculum Refinement:** Suggestions for refining the curriculum were implemented, making it more relevant to current industry trends and academic standards.

3. Formative Assessment Strategies

Identifying Learning Gaps:

The feedback and subsequent evaluations highlighted gaps in students' understanding and subject knowledge. These gaps were addressed through targeted interventions to support both slow and advanced learners.

Support for Slow Learners:

- **Remedial Training:** Post-semester remedial training sessions were conducted for slow learners to help them bridge their knowledge gaps. These sessions focused on foundational concepts and provided personalized attention.

Encouragement for Advanced Learners:

- **Co-Curricular Activities:** Advanced learners were encouraged to engage in co-curricular activities that fostered their intellectual growth and leadership skills.
- **Career-Oriented Programs:** Advanced learners were also directed towards career-oriented programs and events, enhancing their readiness for professional opportunities.

4. Curriculum and Teaching Enhancements

Feedback-Driven Curriculum Review:

Faculty members recommended workshops for curriculum redesign based on student feedback. These workshops aimed to update the curriculum, ensuring its relevance and alignment with current academic and industry standards.

Outcome-Based Evaluations:

The effectiveness of the curriculum was measured through various assessment methods, including:

- **Internal Tests:** Regular tests to evaluate students' grasp of the material.
- **Group Discussions:** To assess communication, critical thinking, and collaborative skills.
- **Presentations:** To gauge students' ability to articulate ideas and engage in research.
- **University Examinations:** Final exams conducted by the University to assess overall learning and understanding.

5. Career Guidance and Development

Teachers provided personalized career guidance, sharing valuable insights into both academic and professional opportunities. This helped students better understand their career prospects and the necessary steps to achieve their goals. This guidance included advice on internships, job opportunities, and advanced studies, facilitating a well-rounded approach to career planning.

6. Outcome

This comprehensive feedback system underscores the Institute's unwavering commitment to continuous improvement. By utilizing detailed feedback from students, the Institute ensures that teaching practices, curriculum design, and student support systems are constantly evolving to meet the academic and career needs of students. The result is a high-quality educational experience that not only enhances student learning outcomes but also better prepares them for their future careers.

Through consistent evaluation, targeted interventions, and a feedback-driven approach to curriculum and teaching, the Institute of Science is able to offer an educational environment that promotes excellence in both academic and professional development.

RESEARCH, INNOVATIONS, AND EXTENSION

The Institute of Science actively fostered academic engagement and research excellence in 2020 by organizing several notable seminars and conferences. These events highlighted advancements in various scientific disciplines while promoting interdisciplinary collaboration and encouraging innovation. Below is a detailed overview of the events:

1. National Seminar on Advanced Materials 2020 (NSAM-2020)

- **Date:** 3rd March 2020
- **Discipline:** Physics
- **Special Focus:** The seminar celebrated the invaluable contributions of women scientists in the field of advanced materials. This recognition aimed to highlight their pivotal roles and encourage greater gender inclusivity in the sciences.
- **Objective:** The primary objective of NSAM-2020 was to explore and discuss the latest innovations and ongoing research in advanced materials. It served as a platform for physicists, materials scientists, and industry professionals to collaborate and exchange knowledge, fostering advancements in the development of new materials with potential applications across various fields, including technology, energy, and healthcare.
- **Highlights:**
 - Presentations on cutting-edge research in materials science.
 - Panel discussions on the role of women in scientific innovation.
 - Networking opportunities for researchers and industry experts.

2. Seminar on Green Techniques in Zoology

- **Date:** 22nd January 2020
- **Discipline:** Zoology
- **Focus:** The seminar explored the integration of environmentally friendly and sustainable techniques in zoological research and practical applications.
- **Significance:** This event emphasized the growing importance of "green" methodologies in the field of conservation biology and zoology. The seminar highlighted the role of

sustainable practices in the preservation of biodiversity, ecological balance, and the development of ethical wildlife research practices.

- **Themes:**
 - Use of non-invasive research techniques.
 - Sustainable wildlife management practices.
 - Conservation biology in the age of climate change and habitat loss.

3. National Conference on Recent Trends in Chemistry (NCRTC-2020)

- **Date:** 13th February 2020
- **Discipline:** Chemistry
- **Theme:** This conference centered on the latest advancements and emerging trends in chemical sciences. It focused on breakthrough developments in fields such as materials chemistry, green chemistry, and industrial applications of chemical innovations.
- **Purpose:** NCRTC-2020 provided a dynamic platform for researchers, academicians, and students to present their work, share knowledge, and discuss future research directions in chemistry. The event aimed to bridge the gap between theoretical research and real-world chemical applications.
- **Sessions:**
 - Keynote talks from renowned chemists and researchers.
 - Research presentations on emerging trends in sustainable chemistry.
 - Workshops on cutting-edge laboratory techniques and methodologies.

Overall Impact and Commitment to Research and Innovation

These events exemplify the Institute's unwavering commitment to fostering research and innovation across a broad range of scientific disciplines. Special emphasis was placed on sustainability, inclusivity, and the promotion of green methodologies in science. The Institute continuously strives to create an environment that nurtures academic discourse, encourages interdisciplinary collaboration, and supports the development of solutions to pressing global challenges, including climate change and sustainable resource management.

By facilitating such seminars and conferences, the Institute not only advances the frontiers of scientific research but also creates a platform for fostering intellectual growth and professional networking among students, researchers, and industry leaders. These initiatives ensure the Institute's active participation in the global scientific community and contribute to the advancement of science and technology.

IT INFRASTRUCTURE

The following table provides a comprehensive summary of the IT infrastructure at the Institute, including the number of computers, facilities, and internet bandwidth.

Summary of IT Infrastructure

Category	Existing	Added	Total
Total Computers	122	50	172
Computer Labs	8	-	8
Internet Browsing Centers	9	-	9
Computer Centers	9	-	9
Office Computers	16	-	16
Department Computers	106	50	156
Bandwidth (MBPS/GBPS)	100 MBPS	0	100 MBPS

Insights

1. Significant Expansion:

- A total of 50 additional computers were added, primarily for departmental use, increasing the total number of computers from 122 to 172.

2. Facilities:

- The number of computer labs, internet browsing centers, and computer centers remained the same, with no new additions in these categories.

3. Bandwidth:

- The bandwidth remains consistent at 100 MBPS, providing stable connectivity for both academic and administrative activities across the Institute.

4. Enhanced Resources for Departments:

- The largest proportion of the added computers (50 units) was allocated to departments, bolstering their academic and operational capabilities.

This robust IT infrastructure underpins the Institute's commitment to digital education, ensuring the seamless execution of both academic and administrative functions, with a clear focus on expanding departmental resources.

MAINTENANCE OF CAMPUS INFRASTRUCTURE

The Institute maintains a structured and systematic approach to campus infrastructure and resource management, ensuring compliance with regulations from the Department of Higher and Technical Education, Government of Maharashtra. Below is a detailed summary of the maintenance and operational practices in place:

1. Maintenance and Repairs

- **Civil and Electrical Maintenance:**
 - Managed by the Public Works Department (PWD), which operates within the campus to ensure that all civil and electrical infrastructure remains in good condition and compliant with safety standards.
- **Annual Maintenance Contracts (AMCs):**
 - AMCs are in place for campus systems such as the website, CCTV cameras, and other essential equipment. These contracts ensure that the systems are regularly serviced and maintained.
 - Non-functional instruments and equipment are written off as per government protocols to ensure that only operational resources are accounted for.

2. Procurement and Inventory Management

- **Procurement Process:**
 - The procurement of instruments and consumables is managed by the Purchase Committee, which evaluates and purchases items based on the needs of various departments.
 - Items are distributed by the Stores Department, ensuring that each department receives the necessary materials in a timely manner.
- **Record Keeping:**
 - Each department is responsible for maintaining a stock register for all procured equipment and consumables, ensuring clear documentation of inventory.
 - **Annual Stock Verification** is carried out at the departmental level to assess current resources, identify future needs, and ensure inventory accuracy.
- **Asset Management:**
 - Purchased and discarded assets are promptly recorded in the Institute's asset management system. This ensures accountability and a well-maintained record of all Institute assets.

3. Sports and Fitness Facilities

- **Outdoor Facilities:**
 - The Institute features a spacious courtyard that supports various outdoor sports, including volleyball, throwball, and badminton, providing students with ample space for physical activities.
- **Indoor Facilities:**
 - A well-equipped gymkhana provides facilities for indoor games, catering to a variety of sporting activities and promoting fitness among students.

- The gymnasium is equipped with cardio equipment, ensuring that students have access to resources for maintaining physical health.
- **Oversight:**
 - The Sports Committee is responsible for ensuring the proper functioning and maintenance of all sports and fitness facilities, coordinating regular inspections, and addressing any issues that arise.

4. Library and Campus Maintenance

- **Library Management:**
 - The library is an integral part of the academic infrastructure, and its upkeep is assisted by students employed under the Earn and Learn Scheme. These students help with organizing, cataloging, and maintaining the library's resources.
 - The library stock is regularly updated, with timely records maintained for both new acquisitions and discarded materials, ensuring a well-organized collection.
- **Campus Cleaning:**
 - The cleanliness and hygiene of the campus are outsourced to a third-party agency, ensuring that the Institute's grounds, classrooms, and common areas are consistently clean and well-maintained.

5. Staffing and Resource Optimization

- **Addressing Staff Deficiency:**
 - In areas such as the library, sports complex, and laboratories, staff shortages are addressed by hiring personnel on a clock-hour basis or on a contractual basis, ensuring that these facilities continue to operate efficiently and meet the needs of the Institute.

This comprehensive and organized approach to campus infrastructure maintenance ensures efficient resource management, timely repairs, and adherence to government protocols. By continuously optimizing the use of resources and maintaining facilities in good condition, the Institute fosters an environment conducive to academic excellence, student well-being, and operational sustainability.

STUDENT SUPPORT AND PROGRESSION

Summary of Student Development Activities for 2019

Year	Name of the Scheme	Number of Benefited Students for Competitive Exams	Number of Benefited Students by Career Counseling Activities	Number of Students Who Passed in Competitive Exams	Number of Students Placed
2019	NET-SET Workshop	20	20	1	0

Highlights

1. NET-SET Workshop:

- Focused on preparing students for National Eligibility Test (NET) and State Eligibility Test (SET).
- Benefited 20 students through targeted training for competitive exams and career counseling.

2. Success Rate:

- 1 student successfully cleared the competitive exam as a result of the workshop.

3. Placement Outcome:

- No placements were reported directly following the workshop in the given year.

Summary of Higher Education Enrollment for 2019

Year	Number of Students Enrolling into Higher Education	Programme Graduated From	Department Graduated From	Name of Institution Joined	Name of Programme Admitted To
2019	4	The Institute of Science Mumbai	Botany	The Institute of Science Mumbai	Ph.D

Highlights

1. Higher Education Continuation:

- **4 students** from the **Botany Department** chose to pursue higher education at the same institution.

2. Programme Advancement:

- These students transitioned from their graduate program to a **Ph.D. program** at **The Institute of Science, Mumbai.**

This demonstrates the Institute's ability to foster academic growth, encouraging students to continue their research journey within the same institution.

Summary of Students Qualifying in State/National/International Level Examinations (2019)

Examination	Number of Students Selected/Qualifying
NET	1
SET	2
GATE	1
Any Other	1

Highlights

1. National Level Examinations:

- Success in **NET (1 student)** and **SET (2 students)** showcases the Institute's strong foundation in preparing students for eligibility tests for academic and research careers.
- GATE (1 student)** qualification highlights aptitude in technical and engineering domains.

2. Other Examinations:

- 1 student** succeeded in a category listed under "Any Other," reflecting diverse academic pursuits.

This data underscores the Institute's role in equipping students for competitive examinations and advancing their professional and academic aspirations.

STUDENT PARTICIPATION AND ACTIVITIES

Summary of Student Council and Events for 2019-20

Student Council

- Constituted with **topper students** from each class.
- Council Members:
 - General Secretary:** Mr. Aniket Gawas
 - Cultural Secretary:** Mr. Shubham Tanpathak
 - Ladies Representative:** Miss Harshita Shenoy
 - Boys Representative:** Mr. Kamruddin Kazi
 - Students Representative (Admin):** Miss Apurva Mandlik

Events Organized

1. Marathi Language Day (Marathi Bhasha Diwas)

- Celebrated on **27th February 2020**.
- Participation from students, teaching, and non-teaching staff.
- Activities emphasized the cultural and literary significance of Marathi.

2. Philosophical Association Activities

- Organized from **11th to 18th February 2020**.
- Included engaging events like:
 - Treasure Hunt
 - Photography
 - "Get in Character"
 - Debate ("Say It Loud")
 - Quiz
 - Mister and Miss Institute

- Abstract Painting

3. Annual Day Function - *CIENCIA*

- Held on **7th March 2020**.
- **Chief Guest:** Mr. Nandesh Umap, a popular Marathi singer and *Shahir*.
- Highlight:
 - **Mister Institute:** Mr. Pratik Deokar
 - **Miss Institute:** Miss Siddhali Tambe
 - Winners were felicitated by the **Director** and the **Chief Guest**.

Cultural Programs

- Featured diverse performances such as:
 - Solo, duet, and group dances
 - Singing
 - Drama and skits
 - Fashion Show

These activities demonstrated a strong emphasis on student engagement, cultural celebration, and talent recognition, fostering a vibrant and inclusive campus environment.

ALUMNI ENGAGEMENT

Institute of Science Alumni Association (ISAA)

- **Name:** The Institute of Science Mumbai Alumni Association (ISAA)
 - **Registration Number:** E-22070, Mumbai
 - **Date of Registration:** 29th September 2004
-

Alumni Membership

- **Patron Members:** 8
 - **Life Members:** 287
-

Alumni Association Activities

The **ISAA** has organized several initiatives to engage both current students and alumni, fostering connections and knowledge-sharing. These include:

1. **Invited Lectures:** Alumni and other eminent personalities are invited to share their expertise with students.
 2. **Workshops:** Practical workshops are conducted to enhance student skills and career opportunities.
 3. **Field Visits:** Alumni-organized visits help students gain insights into real-world applications in various fields.
-

Alumni Meet

- The **Alumni Meet** for 2019 was held on **21st December 2019**.
- **Hon. Vice Chancellor** Prof. Suhas Pednekar presided over the event, marking it as a significant occasion for alumni engagement.

These activities strengthen the bond between alumni and the Institute, promoting a continuous exchange of knowledge and opportunities for current and former students alike.

COLLABORATIONS AND INITIATIVES:

Solid Waste Management Program (13th June 2019)

In collaboration with **Bajaj Electricals**, a **Solid Waste Management Program** was held at The Institute of Science, aiming to raise awareness about waste segregation and management. The program focused on reducing wet garbage and achieving a "Zero Wet Garbage" status for the Institute.

Syllabus Design under CBCS (12th and 21st June 2019)

- On **12th June 2019**, **Prof. Thakkar**, President of ISAA, addressed the faculty regarding the **CBCS syllabus structure**.
- On **21st June 2019**, **Prof. Thakkar** and **Dr. Samant** from **ICT, Mumbai**, conducted the second session to design the syllabus structure for the new **M.Sc. programs** at The Institute.

Alumni Initiatives and Events:

1. Facilitating Analytical Measurements (16th July 2019):

Dr. Anil Nimkar, Director of Quality Management and Analytics at Natura Yuva AG, delivered an insightful talk titled "**Facilitating Analytical Measurements through Application-Focused Solutions - Opportunities.**"

2. Alumni Medicinal Plant Garden (16th July 2019):

As part of the **Centenary Year Celebrations**, the **Alumni Medicinal Plant Garden** was inaugurated by **Dr. Anil Nimkar** with a goal to promote a greener campus and sustainable environmental practices.

3. Campus to Corporate Session (18th July 2019):

The second session of "**Campus to Corporate**" was held at **Godrej Marine Ecological Centre**, Vikroli, where **10 students** from the **Botany** and **Environmental Science** departments attended, along with **Dr. Aparna Saraf**, Secretary of ISAA.

4. Potential 2 Performance Workshop (21st September 2019):

Dr. Razia S. Manjrekar, Director of **Sunanda Specialty Coating Pvt. Ltd.** and a **Life Coach**, conducted a "**Potential 2 Performance**" workshop to help students unlock their potential and improve career performance.

5. Solid Waste Management Program (25th September 2019):

Another session on **Solid Waste Management** was conducted with **Bajaj Electricals**, focusing on **Rotary Garbage Composting Drums** to help achieve zero wet garbage generation. Students, faculty, and canteen staff were trained in waste segregation practices.

6. Talk on Municipal Solid Waste Management (27th September 2019):

Prof. Arun D. Sawant enlightened attendees on the **global scenario of Municipal Solid Waste Management** and how waste can be converted to energy. He shared statistical data on the calorific value of waste from leading Indian cities.

7. Google Crowdsourcing Session:

Dr. Raj Patil, an alumnus, led a session where the **Google team** of 6 members explained the **Crowdsourcing concept** to students and faculty, fostering collaboration and innovation.

8. **Nature Trail at Maharashtra Nature Park** (12th October 2019):

ISAA organized a **Nature Trail** for students, faculty, and alumni at **Maharashtra Nature Park** (MNP), led by **Dr. C.S. Lattoo**, an alumnus, who shared his expertise on the flora of MNP.

9. **Workshop on Analytical Instruments** (2nd to 9th December 2019):

A **7-day workshop** was held for exposing students to various **analytical instruments**, focusing on practical application. This was part of the **Centenary Year Celebrations** and aligned with the Institute's aim to provide hands-on experience.

10. **Research Insights from Wildlife Institute of India** (5th December 2019):

Dr. Gautam Talukdar, an alumnus and **Scientist E** at the **Wildlife Institute of India**, conducted a special session for **Botany students**, sharing ongoing research activities and career opportunities at the **Wildlife Institute of India** (WII), Dehradun.

These initiatives highlight the Institute's commitment to student engagement, environmental sustainability, alumni involvement, and academic excellence, as well as fostering a deeper connection between academic learning and real-world applications.

STRATEGY DEVELOPMENT AND DEPLOYMENT

Curriculum Development:

The Institute of Science has become a lead college under the cluster university Dr. Homi Bhabha State University (HBSU) as of February 2019. The faculty members have updated and introduced new topics in the syllabus, adhering to the Choice-Based Credit System (CBCS). elements of the revised syllabus include:

- Ability-Enhanced Courses and Skill-Based Enhancement Courses.
- Introduction of projects and seminars to expose students to the research environment.
- Faculty members are actively involved in curriculum development, with many serving on the Board of Studies (BOS), Examination Committee, and Research Committee.

Teaching and Learning:

The Institute employs creative and effective teaching methodologies to foster student learning:

- ICT Technology is used in classrooms to enhance teaching.
- Mentor-Mentee System: Each student is guided by a mentor to address individual learning challenges.
- Guest Lectures, Study Tours, and Industrial Visits are organized to give students real-world exposure.
- The focus is on slow learners, ensuring they receive the necessary support.
- Basic concepts are introduced to students at the beginning of each session to strengthen their foundational knowledge.

Examination and Evaluation:

- Internal evaluations account for 40% of the total marks for each paper, which includes:
 - Tests, Group Discussions, and Student Seminars.
 - Report writing, Review writing, and Project Completion Reports.
 - Attendance: 5 marks are awarded for students with 75% attendance or more and active participation.
- The Institute follows the examination pattern of HBSU Mumbai, utilizing an online on-screen marking system with a central assessment center in each cluster college.

Research and Development:

- Faculty and Research Scholars actively engage in research, guiding PG students in their final-year projects.
- Research grants are obtained from agencies such as UGC, DST, CSIR, DBT, and the Maharashtra Government.
- Faculty regularly publishes research papers in high-impact factor journals and participates in National and International Conferences.
- The Institute organizes conferences, seminars, and workshops to support academic research.
- Faculty also serve as peer reviewers for various journals and funding agencies.

Library, ICT, and Infrastructure:

- The Institute has a well-stocked library with 601 new books purchased in the academic year 2019-20.
- Internet: The Institute provides 100 MBPS connectivity, Wi-Fi, and ICT facilities in classrooms.
- Sophisticated scientific instruments have been added to departments through Government

grants, DPDC grants, and research project grants.

- E-Journals and E-books are available through INFLIBNET, offering access to over 5900 e-journals.

Human Resource Management:

- The Institute facilitates campus interviews, industrial jobs, and offers fellowships for higher education, both in India and abroad.
- Students are encouraged to undertake research projects in other establishments for wider exposure.
- Industrial visits and excursion tours are organized to enhance learning and career prospects.
- The Institute has a student guidance and placement cell to assist students with career opportunities and higher studies.

Industry Interaction and Collaboration:

The Institute has established several collaborations with industries and research institutes:

- Pancham Aquaculture for Prawn Culture.
- Institute of Chemical Technology, Mumbai for research in Material Sciences.
- Malkolam Knowledge Centre, CIFE, Mumbai for knowledge exchange.
- Tata Institute of Fundamental Research, Mumbai for active academic and research collaborations.

Admission of Students:

- Transparent Merit-Based Admission: Admissions are conducted online and based purely on merit, with all information available on the Institute's website and notice boards.
- Cashless Payments: All admissions-related payments are processed through an online payment gateway.
- Reservation Norms: Admission follows the State Government norms.
- Research-Level Admissions: For Ph.D. programs, candidates who qualify PET/NET/SET/GATE are selected after interviews. Their research proposals are scrutinized by the Research Advisory Committee (RAC) and approved by the Research Recognition Committee (RRC).

The Institute offers a comprehensive academic environment with up-to-date curriculum development, robust teaching and learning methodologies, and a strong emphasis on research and industry collaboration. These initiatives ensure that students receive quality education and are well-prepared for future academic and career challenges.

INSTITUTIONAL VALUES AND BEST PRACTICES

Title of the Programme: International Women's Day Celebrations

- Period From: 08/03/2020
- Period To: 08/03/2020
- Number of Participants:
 - Female: 45
 - Male: 5

Solid Waste Management Program in Collaboration with Bajaj Electricals

- Date: 13th June 2019
 - Activity: A solid waste survey was conducted by the Institute in collaboration with Bajaj Electricals to assess the waste generated.
- Date: 25th September 2019
 - Event: Solid Waste Management program led by Mr. Kartik Jogi, focusing on effective waste management practices.
- Date: 27th September 2019
 - Event: Lecture on "Municipal Solid Waste Management: Waste to Energy... Global Scenario!" by Dr. Arun D. Sawant, discussing the commercial importance of waste and its energy potential.

Wildlife Week Celebration by the Department of Environmental Science

- Date: 4th and 5th October 2019
 - Event: A two-day event titled "Wilderness," organized to celebrate Wildlife Week and raise awareness on environmental issues.

Community Engagement and Local Contribution Initiatives (2019)

- Number of initiatives to address locational advantages and disadvantages: 1
- Number of initiatives taken to engage with and contribute to the local community: 1

Details of the Initiative

- Date: 20th February 2019
- Duration: 1 day
- Name of Initiative: National Mathematics Day – 2019, also called SIGMATICS 2020
- Issues Addressed: The importance of Mathematics in daily life
- Number of Participating Students and Staff: 75

This event focused on promoting awareness of the relevance of Mathematics and its application in various fields of life.

1. Environmental Sustainability and Awareness

◦ Waste Disposal and Recycling:

The institution follows strict guidelines for waste disposal after practical work, in alignment with CPCSEA (Committee for the Purpose of Control and Supervision of Experiments on Animals) and the Environmental Department.

- Garden waste is recycled using composting pits.
 - M.Sc. students are encouraged to take on small research projects to study environmental issues like plant toxicity, pollution levels, and heavy metal deposition in soil and plants.
- #### **◦ Environmental Awareness Programs:**

The Institute organizes various competitions to raise awareness among students regarding environmental concerns, including biosafety, hygiene, and waste disposal practices. A movement against plastic is also promoted through programs during the Annual Day celebrations.

2. **Academic and Research Excellence**

○ **National Conference on Recent Trends in Chemistry:**

The Department of Chemistry, in collaboration with the National Gallery of Modern Art, Mumbai, and CSIR, New Delhi, organized the **National Conference on Recent Trends in Chemistry (NCRTC-2020)** on 13th and 14th February 2020.

○ **Workshop on Analytical Instruments:**

A workshop on analytical instruments, focusing on chromatography, spectroscopy, and material characterization, was organized from **2nd to 9th December 2019** in collaboration with the alumni association and Dr. Homi Bhabha State University.

○ **National Science Day Week:**

The Institute celebrated **National Science Day** by organizing a science exhibition with eight to ten working models demonstrated by students. Dr. N. M. Fatangare evaluated the exhibits. Additionally, an **Essay competition** was held on 29th February 2020, with 28 students participating.

○ **National Seminar on Advanced Materials – 2020:**

On **3rd and 4th March 2020**, the Institute organized a **National Seminar on Advanced Materials**, focusing on the theme “Woman in Science,” in collaboration with the National Gallery for Modern Arts, Mumbai, and funded by the Rajiv Gandhi Commission for Science and Technology and NCSTC. The seminar celebrated the contributions of women scientists.

FUTURE PLANS OF ACTION FOR THE NEXT ACADEMIC YEAR

1. **Strengthening Digital Learning Platforms**

The Institute is committed to enhancing the teaching and learning experience, particularly through the continued use of online platforms. As a response to the pandemic and in anticipation of future challenges, the Institute plans to:

- Strengthen multiple digital platforms such as **Zoom, Google Meet, and Microsoft Teams** for seamless online curriculum delivery.
- Expand the use of blended learning environments by incorporating digital devices into physical classrooms to enhance the flexibility of teaching and ensure effective learning for all students.

2. **Augmentation of Physical Infrastructure**

In alignment with the shift towards digital learning, the Institute plans to augment its physical infrastructure to better support these online and hybrid teaching models:

- **Blended classrooms** will be set up, equipped with advanced digital devices and audio-visual tools to ensure that both in-person and online students can participate in an interactive and efficient learning process.

3. **Capacity Building Initiatives**

- The Institute plans to invite **guest faculty** to deliver talks and workshops to help enhance the skills and knowledge of both staff and students. This will also include

capacity-building measures for staff to further adapt to online teaching tools and methodologies.

4. **Expansion of Audio-Visual Repositories**

The creation and expansion of **audio-visual repositories** for academic content will be a priority. These resources will provide students with the necessary study materials and references, further supporting their academic growth in a digital format.

These initiatives aim to adapt to the new realities of education while enhancing the overall learning experience for students and faculty alike.

2.2 ELPHINSTONE COLLEGE, MUMBAI



Elphinstone College: A Beacon of Education and Heritage

Elphinstone College holds a distinguished position in the history of education in India. Established long before the University of Mumbai, to which it was later affiliated, the institution has been a cornerstone of academic excellence and intellectual growth. Its legacy as a leading educational institution continues to shape the future of countless students.

Inclusive Education for All Strata of Society

One of the hallmarks of Elphinstone College is its open access to students from diverse backgrounds. The college welcomes individuals from various communities, income groups, and interests, fostering a rich and inclusive educational environment. It is one of the few institutions in Mumbai offering extensive hostel facilities for both boys and girls, making it accessible to students from across the region. The hostel, located just a short distance from the college and offering views of the iconic Marine Drive, stands as a unique feature of the campus, providing students with a comfortable and supportive living environment.

A Historic and Prestigious Location

The college's location is not only convenient but also historically significant. The college building, with its stunning Gothic architecture, has been classified as a Grade 1 Heritage structure. Recently, it underwent restoration by the Kala Ghoda Association, returning its original grandeur. The building now stands out as a symbol of architectural beauty, especially when illuminated at night. This restoration earned Elphinstone College the prestigious Asia-Pacific Heritage Award for Culture Heritage Conservation from UNESCO in 2004, further cementing its importance as a heritage site.

State-of-the-Art Facilities

Elphinstone College's commitment to providing a well-rounded educational experience is reflected in its modern infrastructure. The college library, one of the best in the region, houses a collection of over 100,000 books, journals, and periodicals. The library's diverse range includes some of the oldest and rarest books in the country, alongside the latest publications in various fields of study, offering students an invaluable resource for their academic pursuits.

Equally impressive are the college's computer and science laboratories, which are equipped with cutting-edge technology to help students develop practical skills in their respective fields. These well-maintained labs are a crucial part of the college's infrastructure, ensuring that students are well-prepared for the challenges of the modern world.

Fitness and Sports Excellence

Beyond academics, Elphinstone College takes pride in promoting physical fitness and sports. The college boasts a state-of-the-art Fitness Centre located within the Gymkhana, offering students access to top-tier facilities for physical training. It is no surprise that some of Mumbai's most accomplished sports personalities have emerged from this institution. The college also has its own cricket pitch, further enhancing its reputation as a hub for nurturing sporting talent.

Innovative Teaching and Learning

In its commitment to providing the best educational experience, Elphinstone College has invested in modernizing its teaching facilities. The college has recently developed five "smart" classrooms, complete with interactive boards, to facilitate engaging and interactive learning. These technologically advanced classrooms allow for a dynamic educational experience, where students can interact with course materials in innovative ways, enhancing both teaching and learning.

Dedicated Faculty and Student-Centric Approach

At the heart of Elphinstone College's success are its dedicated faculty members, who are renowned in their respective fields. These eminent personalities bring not only expertise but also a deep commitment to the growth and development of their students. The faculty's passion for teaching ensures that students receive personalized attention, fostering an environment where academic excellence can flourish.

Elphinstone College stands as a testament to the fusion of tradition and modernity, offering students an environment where history, heritage, and innovation come together. With its rich infrastructure, commitment to inclusive education, and focus on holistic development, the college continues to shape the leaders of tomorrow. Whether through academic achievements, sporting success, or cultural enrichment, Elphinstone College remains a beacon of learning and excellence in Mumbai.

Faculty Profile

S.No .	Name Of The Employee	Designation	Gender	Social Category	DOJ	HQ	A Q	BDGC
1	Mr. Sushant Mahajan	Assistant Professor	Male	General	13-02-2020	Post	15	Arts
2	Mr. Yallapa Birajdar	Assistant Professor	Male	General	28-06-2020	Post	17	Arts
3	Dr. Anil Sable	Assistant Professor	Male	SC	24-03-2020	Ph.D.	17	Arts
4	Dr. Balasaheb Khomane	Assistant Professor	Male	OBC	21-06-2020	Ph.D.	3	Arts
5	Dr. Balasaheb P. Kambale	Assistant Professor	Male	SC	13-10-2020	SLE T	7	Commerce
6	Dr. Bhavana Patole	Associate Professor	Female	General	17-04-2019		97	Arts
7	Dr. Blasaheb N. Kulkarni	Associate Professor	Male	General	03-06-2020		16	Arts
8	Dr. Dhanraj B. Nakade	Assistant Professor	Male	OBC	15-06-2020		16	Medical
9	Dr. Neha Kasturiwa	Associate Professor	Female	General	03-08-2020		15	Commerce
10	Dr. Nikita Naik	Associate Professor	Female	General	01-07-2019	SLE T	91	Medical
11	Dr. Rajendra Dhamanskar	Associate Professor	Male	General	20-07-2019	NET	89	Science
12	Dr. Ratnakar V. Hajare	Assistant Professor	Male	General	01-08-2020		15	Arts
13	Dr. R.S. Lolge	Assistant Professor	Male	OBC	10-06-2020		16	Physical Education
14	Dr. Sakshi Chaubal	Associate Professor	Female	General	01-06-2019	SLE T	95	Science
15	Dr. Sanjay S. Jagtap	Assistant Professor	Male	General	13-08-2020		14	Science
16	Dr. Sanjiwani Patil	Associate Professor	Female	OBC	19-06-2020		17	Commerce
17	Dr. Savita A. Patil	Assistant Professor	Female	General	06-10-2020		7	Arts

S.No .	Name Of The Employee	Designation	Gender	Social Category	DOJ	HQ	A Q	BDGC
18	Dr. Madhuri Vasant Kagalkar	Principal	Female	General	07-05-2020		14	Social Science
19	Dr. Minakshi M. Sagdeo	Associate Professor	Female	General	27-07-2020		15	Social Science
20	Dr. Sneha Joshi	Associate Professor	Female	General	25-06-2020		19	Science
21	Dr. Vilas S. Padhye	Associate Professor	Male	General	09-04-2019	SLE T	97	Arts
22	Miss Farzin Qureshi	Temporary Teacher	Female	General	01-07-2020		18	IT & Computer
23	Miss Sanjyoti M. Sanap	Associate Professor	Female	General	03-08-2019		99	Arts
24	Mr. Bharat Raut	Assistant Professor	Male	OBC	27-11-2020	SLE T	7	Science
25	Mr. Dattaray Gangorde	Assistant Professor	Male	ST	16-02-2020	NET	15	Arts
26	Mr. Devidas Gadekar	Assistant Professor	Male	SC	23-06-2020	NET	17	Arts
27	Mr. Mayur Gaikwad	Temporary Teacher	Male	SC	18-06-2020		19	Science
28	Mr. Mazhar Shaikh	Temporary Teacher	Male	General	01-07-2020		18	IT & Computer
29	Mr. Parag Mashram	Assistant Professor	Male	ST	11-06-2020	NET	11	Science
30	Mr. Pritesh Kalan	Assistant Professor	Male	OBC	24-02-2020	NET	15	Commerce
31	Mr. Rahul Zanan	Assistant Professor	Male	OBC	12-07-2020		16	Science
32	Mr. Rajesh Thakre	Assistant Professor	Male	OBC	31-08-2020	NET	10	Social Science
33	Mr. Rupesh Raut	Assistant Professor	Male	OBC	14-09-2020	NET	7	Science
34	Mr. Samadha Waghmode	Assistant Professor	Male	OBC	23-02-2020	SLE T	15	Medical Science
35	Mrs. Deepa Hirani	Assistant Professor	Female	General	17-06-2019	SLE T	97	Medical Science
36	Mr. Sheetalkumar G. Gaikwad	Assistant Professor	Male	SC	01-03-2020	NET	7	Arts
37	Mrs. Jayaa Pawar	Assistant Professor	Female	SC	13-06-2020	SLE T	6	Science

S.No .	Name Of The Employee	Designation	Gender	Social Category	DOJ	HQ	A Q	BDGC
38	Mrs. Mrinal V. Kagwade	Assistant Professor	Female	General	02-04-2020		8	Science
39	Mrs. Namrata More	Temporary Teacher	Female	OBC	18-06-2020		19	Science
40	Mrs. Nikita Thakre	Assistant Professor	Female	OBC	10-09-2020	NET	16	Science
41	Mrs. Roshani Yeola	Assistant Professor	Female	General	08-09-2020	NET	15	Science
42	Mrs. Sana Khan	Temporary Teacher	Female	General	01-07-2020		18	IT & Computer
43	Mrs. Sangita Joshi	Associate Professor	Female	General	21-06-2020		17	Commerce

2.3 SECONDARY TRAINING COLLEGE MUMBAI



The college was founded in **1906** by the Secretary to the British Government as recommended by the historic **Wood's Despatch (1854)**. Originally named **The Secondary Training College**, it functioned as an autonomous institute conferring its own **Diploma in Teaching**. Post-independence, the Government of Maharashtra took over, renaming it as **The Government College of Education**. The college began its journey under its first principal, **Mr. J.N. Fraser**, laying the foundation for a legacy of illustrious scholars. Over the years, the leadership baton has changed hands **44 times**, shaping the institution's remarkable journey.

Distinctive Features of the College

1. **A Part of Maharashtra's First Cluster University**
 - The college is a proud component of **Dr. Homi Bhabha State University (HBSU), Mumbai-1**, owned by the Government of Maharashtra.
2. **Highly Qualified Faculty**
 - Experienced and professionally trained staff adept at addressing **diverse student needs**.
 - Instruction is offered in **Marathi, Hindi, and English** to cater to language preferences.
3. **A Heritage Library**
 - Home to one of the oldest and richest libraries with rare books dating back to the early 1900s.
 - Comprehensive resources in **Marathi, Hindi, English, and Urdu**, alongside newspapers, research journals, and reference materials.
 - Equipped with a **reading room** for students.

4. Heritage Infrastructure

- The college occupies a **heritage building**, featuring:
 - Spacious and airy **smart classrooms**
 - A large auditorium and seminar rooms with projectors
 - **ICT and computer labs** with internet access
- Fully compliant with **NCTE norms**.

5. Student-Centric Facilities

- Facilities include lockers, gym, and recreational games.
- **Student welfare committees** and active involvement of students in decision-making.
- Scholarships as per government provisions.

College Emblem, Motto, and Vision

Motto

The motto, "*Let the Learning of Guru and Disciple be Bright and Lustrous*", is derived from the **Yajurveda (Krishna), Ch.II(ii)**. Represented symbolically, the **sun's rays** signify the enlightenment of teaching, learning, and training, while the **torch flame** embodies the college's commitment to producing visionaries ready to illuminate the world.

Mission

"*Excellence through Training*" is the guiding mission, encapsulated in its Sanskrit version, *Prashikshanat Pravinyam*. The college strives to achieve professional excellence through pre- and in-service teacher training.

Vision

To nurture teachers recognized for their outstanding skills and capacity, creating a brand synonymous with excellence in the teaching community.

Historical Significance

The college has been acknowledged as a cornerstone of secondary education. Its historical documents proudly declare:

"The Secondary Teachers' Training College at Bombay is undoubtedly one of the great activities, progress, and success

2.4 SYDENHAM COLLEGE OF COMMERCE AND ECONOMICS, MUMBAI



Sydenham College of Commerce and Economics

Introducing Sydenham College of Commerce & Economics is akin to recounting a 107-year legacy of excellence—an illustrious history as dynamic and transformative as the journey of modern India itself. As the pioneer institution of commerce education in India and the entire Asian continent, Sydenham College has played a pivotal role in shaping the nation's progress. Its contributions extend beyond academic achievement, with an extraordinary lineage of alumni who have made remarkable impacts in various fields, helping to elevate India to its current stature. The college's legacy of excellence is not merely a claim; it is a statement of fact.

Origins and Growth

The story of this esteemed institution began on **October 22, 1913**, when it was established in modest, borrowed premises at Elphinstone College. Originally named **Government College of Commerce**, it later adopted its present name, **Sydenham College of Commerce and Economics**, in recognition of the generous support of Lord Sydenham, then Governor of the Bombay Presidency. This significant patronage played a vital role in the college's growth. The college,

however, was not confined to a single location; it moved through several venues—first from Elphinstone to Khadi Bhandar, and then to J. J. School of Architecture—before settling at its current location in the upmarket area of **Churchgate** in **1955**.

Pioneering Commerce Education in Asia

Sydenham College holds the distinction of being the first educational institution in Asia to offer commerce education, and for many years, it was the sole institution in this domain. The college's stellar reputation soon reached beyond India's borders, attracting students from Africa, South-East Asia, and the Middle East. The college was fortunate to benefit from the expertise of prominent British and Indian scholars, industrialists, bankers, and accountants, many of whom contributed to its academic environment. Among its esteemed faculty was **Bharat Ratna Dr. B.R. Ambedkar**, who served as a professor of Political Economy from 1918 to 1920—a testament to the institution's academic caliber.

Academic Excellence and Holistic Development

Sydenham College is among the few institutions in the country that boasts a range of student-run societies, supported by faculty guidance. Aligned with the college's mission and vision, these societies help foster the overall development of students, equipping them with intellectual knowledge and essential skills to thrive in today's dynamic and complex environment. The college's commitment to nurturing responsible citizens who contribute to national development is evident in its approach to student development.

The college has a long-standing tradition of excellence, with **Sydenhamites** consistently securing top positions in the **University of Mumbai's merit lists**. This legacy continues, and each year, numerous students gain admission to prestigious universities in the **US, UK, and Australia** for higher studies and professional programs.

Recognition and Achievements

The achievements of Sydenham College have been widely recognized over the years. On the occasion of its **Platinum Jubilee in 1988**, the **Government of India** honored the college's contributions by issuing a special postal stamp dedicated to it.

In the **academic year 2013-14**, the college celebrated its **Centenary**, marking a hundred years of academic excellence. This milestone was a defining moment for the institution, as students, faculty, and staff came together to commemorate Sydenham's remarkable journey.

Further affirming its stature, Sydenham College received the **“Most Trusted Brand Award”** in 2016, followed by the **“Asia's Most Trusted Brand Award”** in April 2017. In recognition of its global standing, the college was also nominated for the **“World's Most Trusted Brand Award”**, which was awarded on **October 9, 2017**.

The **National Assessment and Accreditation Council (NAAC)** has awarded Sydenham College an **‘A’ grade** with a **CGPA of 3.42**, a testament to its ongoing commitment to providing quality education.

Continuous Innovation and Research

To further strengthen its academic offerings, Sydenham College has launched various initiatives aimed at improving teaching and learning. The college was recognized as a **Faculty Development Centre (FDC)** under the **PMMMNTT, MHRD** (Ministry of Human Resource Development) in **August 2018**. Through this center, the college organizes induction programs and faculty development workshops, focusing on sectors such as **Banking, Finance, Services, and Insurance**.

The college also encourages research culture among both students and faculty, having established a **PhD Research Centre** in **Business Policy and Administration** and **Business Management**. These efforts reflect Sydenham’s commitment to fostering a robust research ecosystem.

As a Constituent College of Dr. Homi Bhabha Cluster University

In a landmark development, Sydenham College became a constituent college of the **Dr. Homi Bhabha Cluster University**, India’s third cluster university. This innovative step will help integrate application-oriented education and bring prosperity to all stakeholders, further contributing to the nation’s development.

Sydenham College of Commerce and Economics stands as a beacon of academic excellence, innovation, and national pride. Its history is one of vision, determination, and relentless pursuit of quality education, and its future promises even greater contributions to India’s educational and socio-economic landscape.

Data of the College

Field	Details
Name of the Institution	Sydenham College of Commerce and Economics
Name of the Head of Institution	Dr. Madhuri Kagalkar
Designation	Principal
Does the Institution Function from Own Campus	Yes
Phone No./Alternate Phone No.	2222042897
Mobile No.	9920720545
Registered Email	sydprincipal@yahoo.co.in
Alternate Email	iqacsydenhamcollege@gmail.com
Address	B Road, Churchgate
City/Town	Mumbai
State/UT	Maharashtra
Pincode	400020

2. College Status

- **Affiliated / Constituent:** Constituent
 - **Type of Institution:** Co-education
 - **Location:** Urban
 - **Financial Status:** Self-financed and grant-in-aid
 - **Name of the IQAC Coordinator/Director:** Dr. Radhika Iyer
 - **Phone No./Alternate Phone No.:** 02222042897
 - **Mobile No.:** 9892092265
 - **Registered Email:** radhikaiyer@sydenham.ac.in
 - **Alternate Email:** iqacsydenhamcollege@gmail.com
-

List of funds awarded to the institution, including funding details from various agencies:

Institution/Department/ Faculty	Scheme	Funding Agency	Year of Award with Duration	Amount
Institution	PMMMNMTT	Ministry of Education	2018	₹ 1,55,00,000
Institution	DPDC	Government of Maharashtra	2019	₹ 79,00,000

This list includes central and state government funding, with amounts specified for each scheme.

Initiatives Taken Up as a Constituent College of HBSU

Sydenham College of Commerce and Economics, as a constituent institution of Dr. Homi Bhabha State University (HBSU), has implemented several initiatives aligned with the National Education Policy (NEP) 2020. These efforts focus on fostering multidisciplinary education, skill development, and outcome-based learning. Below is a summary of the college's initiatives:

1. *Academic Bank of Credits (ABC)*

In alignment with NEP 2020's vision of academic flexibility, Sydenham College has embraced the Academic Bank of Credits framework by:

- Registering with the ABC portal to facilitate seamless credit transfers and horizontal mobility for students.
- Conducting orientation sessions to familiarize students with the ABC system and encouraging registration via DigiLocker.

This initiative enhances adaptability in higher education, empowering students with greater control over their learning pathways.

2. *Skill Development Programs*

The college has taken significant steps to equip students with practical skills through specialized courses:

- **Vocational Course in Foreign Trade:** Offers certification, diplomas, and advanced diplomas.
- **NSE-Certified Course in Capital Market Professional.**
- **Certificate Course in GST.**

Additionally, the college is planning to introduce more skill-based programs, potentially in areas such as languages, music, Indian art, and culture, to further align with NEP 2020's emphasis on employability and holistic education.

3. *Focus on Outcome-Based Education (OBE)*

Sydenham College has adopted an outcome-based approach to education through the following initiatives:

- Faculty training on Program Outcomes (POs) and Course Outcomes (COs) via specialized workshops.
- Innovative teaching methods, including personalized tutorials (batch sizes of 25) in subjects like Business Communication and Mathematics and Statistics.
- Project-based learning in the Foundation Course, addressing real-world social and political issues such as substance abuse, child labor, and urbanization.

- **M.Com. Research Projects:** Postgraduate students conduct research to develop critical thinking and research skills.

4. . Future Directions

The college plans to further enhance its offerings with courses and programs that reflect the spirit of NEP 2020:

- Introduction of courses in languages, arts, and cultural studies.
- Development of interdisciplinary programs in arts, music, and other creative fields, subject to university guidelines.

By integrating multidisciplinary learning, skill development, and outcome-based education, Sydenham College is positioned as a forward-thinking institution within HBSU, ready to adapt to the evolving landscape of higher education. These initiatives ensure that students receive a comprehensive, flexible, and impactful education experience aligned with global standards.

Sydenham College Academic Calendar 2019-2020

Month	Date	Event
Jun-19	06-06-2019	College Re-opening
	07-06-2019	World Environment Day Celebration
	17-06-2019	Commencement of Second and Third Year classes
	21-06-2019	International Yoga Day Celebration
	26-06-2019	Celebration of the Birth Anniversary of Rajashree Shahu Maharaj
Jul-19	04-07-2019	FYBCOM Induction Programme
	05-07-2019	Curriculum Development Workshop
	08-07-2019	FYBMS/FYBBI Induction Program
	10-07-2019	IQAC Workshop on Documentation
	16-07-2019	Guru Purnima Celebration by Marathi Wangmay Mandal
	18-07-2019	NSS Orientation
	23-07-2019	College Societies Orientation
Aug-19	08-08-2019	Inauguration of Public Speaking and Debating Society
	13-08-2019	Visit to Pre-IAS Centre by English Literary Club
	20-08-2019	Jallosh Event by Marathi Wangmay Mandal
	23-08-2019	Seminar on Cancer Awareness

	26-08-2019	Lecture on Gender Equality in Politics by Women Development Cell
	27-08-2019	Blood Donation Camp by NSS Unit
	29-08-2019	Session on HIV, AIDS & LGBT Community
Sep-19	02/09/2019 to 07/09/2019	Mid-Term Break (Ganesh Festival Vacation)
	11-09-2019	Workshop on Combating Sexual Harassment at Workplace by Girls Forum
	14-09-2019	Hindi Diwas Celebration
	19-09-2019	Workshop on Resume Writing
	23-09-2019	TedX Event by BMS Department
	24-09-2019	NSS Day Celebration
Oct-19	06-10-2019	Swachhta Diwas
	09-10-2019	SYBCOM/SYBMS/SYBBI Semester III Examination
	10-10-2019	Centralized Assessment Program (Assessment and Evaluation)
	11-10-2019	Student Investor Awareness Workshop for First-Year Students
	15-10-2019	Vachan Prerna Diwas Celebration
	22-10-2019	Workshop on Personal Grooming and Soft Image by Placement Cell
	25/10/2019 to 05/11/2019	Diwali Vacation
Nov-19	06-11-2019	College Re-opens after Diwali Vacation
	08-11-2019	Tree Plantation Drive in College
	26/11/2019 to 03/12/2019	FYBCOM/BMS/BBI Semester One Examination
	26-11-2019	Constitutional Day Celebration
Dec-19	06-12-2019	Eloquence – Elocution Competition by PSDS
	09-12-2019	Sargam – Music Concert by Performing Arts Society
	10/12/2019 to 13/12/2019	Brouhaha Intercollegiate Festival 2019
	14-12-2019	Resonance – BMS Alumni Meet
	16-12-2019	Technokrat Event by Sydenham Computer Centre
	17-12-2019	Dhun Event by Hindi Sahitya Mandal
	18-12-2019	Rasoi – Food Festival by Sydenham Co-operative Stores

	20-12-2019	Career Summit – Placement Cell
	25/12/2019 to 01/01/2020	Winter Break
Jan-20	06/01/2020 to 07/01/2020	Yountre Management Festival – BMS Department
	07-01-2020	Seminar on Career in Accounts and Finance
	10/01/2020 to 16/01/2020	Annual Rural Camp – NSS – Kosbad Dahanu
	18/01/2020 to 19/01/2020	Concord Festival – Banking Fiesta by BBI Department
	22-01-2020	Bharari – Annual Festival of NSS
Feb-20	10-02-2020	Ek Koshish – Social Service League
	12-02-2020	Workshop on Disaster Management
	13-02-2020	Blitzcreed – by PSDS
	27-02-2020	Marathi Bhasha Diwas Celebration
Mar-20	09-03-2020	Women’s Day Celebration
	11-03-2020	Guest Lecture on Self-Worth and Self- Image by Girls Forum
	16-03-2020	Internal Examination begins (BCOM, MCOM, BMS, BBI)
	19/03/2020 to 28/03/2020	FYBCOM/SYBCOM/MCOM ATKT Examination
	24-03-2020	SYBCOM Regular Examination Sem 4
	26-03-2020	Centralized Assessment Program (Commencement of Evaluation)
Apr-20	03/04/2020 to 13/04/2020	FYBCOM/BMS/BBI Semester 2 Regular Examination
	15-04-2020	MCOM Semester 2 Examination
May-20	02-05-2020	Term Ends

List of programs adopting the Choice Based Credit System (CBCS) along with their specialization and date of implementation:

Programme	Specialization	Date of Implementation of CBCS/Elective Course System
BCom	General	01/06/2012
BMS	Management Studies	01/06/2015
BCom	Banking and Insurance	01/06/2015
MCom	Accountancy	01/06/2012
MCom	Banking and Finance	01/06/2012

These programs have incorporated CBCS starting from the specified dates, allowing students more flexibility and choice in their course selection.

List of field projects/internships undertaken during the year along with the number of students enrolled for each program:

Project/Programme Title	Programme Specialization	No. of Students Enrolled for Field Projects / Internships
BMS	Management Studies	120
BCom	Banking and Insurance	120
MCom	Banking and Finance	120
MCom	Accountancy	120

Each of these programs had a significant number of students (120) engaged in field projects or internships during the year.

Data on student enrolment and the demand ratio for the year:

Name of the Programme	Programme Specialization	Number of Seats Available	Number of Applications Received	Students Enrolled
BCom	a) Accountancy	1800	3200	1645
BCom	b) Business Management			
MCom	a) Accountancy	240	425	225
MCom	b) Banking & Finance			
BMS	Management	360	2000	360

This table reflects the number of available seats, the number of applications received, and the number of students enrolled for each program.

Pass percentage data for students in the final year examination:

Programme Code	Programme Name	Programme Specialization	Number of Students Appeared in the Final Year Examination	Number of Students Passed in Final Year Examination	Pass Percentage
BCOM	BCom	Accountancy, Business Management	545	545	100%
MCOM	MCom	Accountancy, Banking & Finance	210	210	100%
BMS	BMS	Management	120	120	100%

All the students who appeared for the final year exams in the listed programs passed, resulting in a 100% pass rate.

Resource mobilization data for research funds:

Nature of the Project	Duration (in days)	Name of the Funding Agency	Total Grant Sanctioned (in lakhs)	Amount Received During the Year (in lakhs)
Minor Projects	365	Mumbai University	0.42	-
Minor Projects	365	Mumbai University	0.35	0.3

The data shows the minor research projects funded by Mumbai University, with the total grant sanctioned, but the actual amount received in the specified year is listed accordingly.

List of extension and outreach programmes conducted during the year in collaboration with industry, community, and non-government organizations through NSS:

Title of the Activities	Organizing Unit/Agency/ Collaborating Agency	Number of Teachers Participated	Number of Students Participated
Blood Donation Drive	NSS	2	81
Session on HIV/AIDS LGBT Community	NSS	1	51
Rally on Woman Empowerment	NSS	2	53
Beach Cleanup at Colaba	NSS	1	23
Beach Cleanup at Girgaon Chowpaty	NSS	1	33
Blood Donation Drive at Churchgate Station	NSS	1	26

Title of the Activities	Organizing Unit/Agency/ Collaborating Agency	Number of Teachers Participated	Number of Students Participated
Disaster Management Workshop	NSS	1	50

These activities highlight the involvement of both faculty and students in community engagement through various social initiatives.

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Session on HIV/AIDS LGBT Community	NSS	1	51
Rally on Woman Empowerment	NSS	2	53
Beach Cleanup at Colaba	NSS	1	23
Beach Cleanup at Girgaon Chowpaty	NSS	1	33
Blood Donation Drive at Churchgate Station	NSS	1	26
Disaster Management Workshop	NSS	1	50

These activities highlight the involvement of both faculty and students in community engagement through various social initiatives.

List of linkages with institutions/industries for internships, on-the-job training, project work, and sharing of research facilities during the year:

Nature of Linkage	Title of the Linkage	Name of the Partnering Institution/ Industry/ Research Lab	Contact Details	Duration From	Duration To	Participants
Collaboration for training in capital market	NSE Academy Certified Capital	National Stock Exchange		01/02/2019	31/08/2019	25

Nature of Linkage	Title of the Linkage	Name of the Partnering Institution/ Industry/ Research Lab	Contact Details	Duration From	Duration To	Participants
	Market Professional (NCCMP)					
Collaboration for training in capital market	NSE Academy Certified Capital Market Professional (NCCMP)	National Stock Exchange		01/02/2020	31/03/2021	15

These linkages provide students with valuable training and certifications in the capital markets, which enhance their skills and employability.

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Nature of Linkage	Title of the Linkage	Name of the Partnering Institution/ Industry/ Research Lab	Contact Details	Duration From	Duration To	Participants
Collaboration for training in capital market	NSE Academy Certified Capital Market Professional (NCCMP)	National Stock Exchange		01/02/2019	31/08/2019	25
Collaboration for training in capital market	NSE Academy Certified Capital Market Professional (NCCMP)	National Stock Exchange		01/02/2020	31/03/2021	15

These linkages provide students with valuable training and certifications in the capital markets, which enhance their skills and employability.

Summary of the library services, including the existing and newly added resources:

Library Service Type	Existing	Newly Added	Total
Text Books	16,895	₹2,497,216	16,895
Reference Books	51,411	₹22,413,443	51,522
e-Books	2,603	5,900	5,206
e-Journals	300	5,900	600
Journals	52	₹76,182	69

This reflects a strong emphasis on providing both physical and digital resources to support student learning and research. The addition of a significant number of reference materials, e-books, and e-journals enhances access to a wide range of academic resources.

Summary of student progression to higher education for the year 2019:

Year	Number of Students Enrolling into Higher Education	Programme Graduated From	Department Graduated From	Name of Institution Joined	Name of Programme Admitted To
2019	296	B.Com	Commerce	Sydenham College, KC Law College, SIMSREE	M.Com, LL.B., MMS
2019	92	BMS	Business Management	SIMSREE, JBIMS, PUMBA, Welinkar Institute	MBA
2019	62	BBI	Banking & Insurance	Sydenham College, Mumbai University	M.Com, MBA, MCA

This data highlights the diverse academic paths students pursue after graduation, with many progressing to postgraduate programs like M.Com, MBA, and MCA.

Summary of students qualifying in state, national, or international level examinations during the year:

Examination	Number of Students Selected/Qualifying
NET	2
SET	3
SLET	0
GATE	0
GMAT	5
CAT	0
GRE	0
TOEFL	7
Civil Services	0
Any Other	121

This data shows the diverse achievements of students, with notable success in various examinations, including NET, SET, GMAT, and TOEFL.

List of sports and cultural activities/competitions organized at the institution level during the year, along with the number of participants:

Activity	Level	Number of Participants
Yoga Session – 2019-20	Institutional	156
Sports Jam - 2019-20	Institutional	254
Essay, Elocution, Poetry Competitions	Institutional	34
Jallosh Marathi Cultural Festival	Institutional	104
Hindi Divas Literary Festival	Institutional	55
NSS Poster Competition and Camp	Institutional	100
PSDS - Debate Competition	Institutional	47
Brouhaha Cultural Festival	Institutional	501
Muranjan One Act Play Competition	Institutional	137
SARGAM Performing Arts Festival	Institutional	112

This showcases the vibrant engagement of students in various activities, fostering their skills and cultural awareness across different domains.

List of awards/medals for outstanding performance in sports/cultural activities at the national/ international level for the year 2019:

Year	Name of the Award/Medal	Level	Number of Awards for Sports	Number of Awards for Cultural	Student ID Number	Name of the Student
2019	Mallakhamb	International	0	0	Nil	Rajmudra LokeShivani
2019	Judo	International	3	0	Nil	Shivani Kshirsagar
2019	Swimming	International	0	0	Nil	Mahima Bhatkhamde
2019	Football	National	0	0	Nil	Akash Jadhav, Laukik Sangale
2019	Woodball	International	0	0	Nil	Vedant Patel

This table highlights the outstanding achievements of students in various sports at national and international levels.

ACTIVITY OF STUDENT COUNCIL & REPRESENTATION OF STUDENTS ON ACADEMIC & ADMINISTRATIVE BODIES/COMMITTEES OF THE INSTITUTION

The Student Council at Sydenham College plays a pivotal role in fostering student leadership and promoting active participation in various academic, administrative, and extracurricular activities. Comprising academically strong students, the council includes positions such as the General Secretary, office bearers, and committee members, all of whom are guided by a faculty in-charge. The Student Council operates with a high degree of responsibility, ensuring effective communication between the administration and the student body.

In addition to the Student Council, Sydenham College encourages student representation on more than 22 academics, administrative, and cultural bodies within the institution. These committees provide students with an opportunity to contribute meaningfully to decision-making processes, thereby enhancing their leadership, managerial, and organizational skills. The council and student representatives participate in a wide range of academic and cultural initiatives, which are essential for personal growth and the holistic development of students.

1. Class Committee:

The Class Committee consists of student representatives from each department. These representatives act as a bridge between the students and the faculty. Their role is crucial in ensuring the timely dissemination of information about events, examinations, and learning materials. This committee also helps to address any student concerns or academic issues, fostering a collaborative environment between students and teachers.

2. National Service Scheme (NSS):

The NSS at Sydenham College aims to develop student personalities through community service. Student volunteers, under the guidance of the NSS program coordinator and officer, engage in a variety of social activities such as blood donation drives, special camps, awareness programs, tree planting, and cleaning initiatives at public places like railway stations. These activities promote social responsibility and foster a sense of community among students.

3. Placement Cell:

The Placement Cell at Sydenham College provides career-related services to students across various programs (B.Com., BMS, BBI, M.Com.). Student volunteers from each department serve as placement representatives, coordinating placement drives, guest lectures, and training activities. Senior students also mentor their juniors through peer group training sessions, helping them develop essential skills for the job market.

4. Cooperative Stores Committee:

The Cooperative Stores Committee is responsible for managing the sale of academic resources, including textbooks, journals, and stationery, to students at discounted rates. Additionally, the committee organizes intra-collegiate events such as the annual cooking festival, 'Rasoi,' which encourages students to showcase their culinary talents through food stalls and games.

5. Women Development Cell:

The Women Development Cell (WDC) focuses on the intellectual and social upliftment of female students. Student representatives work alongside faculty members to promote gender

equality and ensure a safe environment for women on campus. The WDC organizes a variety of competitions, including Rangoli, Mehndi, Painting, and Art from Waste, to empower female students and raise awareness about women's issues.

6. Anti-Ragging Committee:

The Anti-Ragging Committee plays a vital role in ensuring a safe and harassment-free environment for all students on campus. Student representatives in the committee actively participate in promoting awareness and addressing any incidents of ragging. The committee is also responsible for taking swift action to maintain a peaceful campus atmosphere.

7. Sydenham Nature Club:

The Sydenham Nature Club is dedicated to promoting environmental awareness among students. Through activities such as observing Plantation Day, vermicomposting of biodegradable waste, and organizing nature trails, the club encourages students to engage in environmental protection and sustainability initiatives. The club provides a platform for students to contribute positively towards environmental causes, thus instilling a sense of responsibility and ethics in them.

In summary, the Student Council and its representation in various committees not only serve as a platform for student governance but also help shape the overall development of students. Through these activities, students gain valuable experience in leadership, teamwork, and social responsibility, which are essential for their personal and professional growth.

Summary of the professional development and administrative training programs organized by the college for teaching and non-teaching staff during the year:

Year	Title of Professional Development Programme for Teaching Staff	Title of Administrative Training Programme for Non-Teaching Staff	From Date	To Date	Number of Participants (Teaching Staff)	Number of Participants (Non-Teaching Staff)
2019	Research Methodology Workshop by Research Centre	NA	19/09/2019	19/09/2019	25	Nil
2019	NA	Workshop on Freeship Scholarship	21/08/2019	22/08/2019	Nil	20
2019	Workshop on Statistical Tools and Techniques in Quantitative and Qualitative Research	NA	22/11/2019	22/11/2019	20	Nil
2020	Mental Wellness and Emotional Well-being	Mental Wellness and Emotional Well-being	07/01/2020	07/01/2020	15	10
2019	NA	Workshop on University Enrolment and Eligibility	23/07/2019	23/07/2019	Nil	6
2019	Workshop on Personal Hygiene During Menstruation (Women Development Cell)	Workshop on Personal Hygiene During Menstruation (Women Development Cell)	10/10/2019	10/10/2019	6	6

These workshops and training sessions were aimed at enhancing the knowledge and well-being of both teaching and non-teaching staff, covering topics such as research methodology, statistical techniques, personal hygiene, mental wellness, and administrative skills.

Summary of the professional development programmes attended by teachers during the year:

Title of the Professional Development Programme	Number of Teachers Who Attended	From Date	To Date	Duration
National Webinar on Designing and Developing Flipped Classroom and E-Learning Instructions	1	07/04/2020	13/04/2020	7 days
National Level Seminar on Intellectual Property Rights and Research Ethics	1	20/11/2019	20/11/2019	1 day
National Level Conference on Intellectual Property Rights and GST	1	04/02/2020	04/02/2020	1 day
14th Annual International Research Conference at St. Francis Institute of Management Research, Borivali (West) - Theme: Evolving Trends and Practices in Managing Businesses on Human Resource Aspect in Start-ups	1	19/02/2020	19/02/2020	1 day
Interdisciplinary Research Methodology Workshop on BFSI Sector (PMMMNMTT)	1	10/02/2020	15/02/2020	6 days

These professional development programs were attended by faculty members to enhance their teaching capabilities, research skills, and knowledge in various academic and administrative areas.

Summary of the quality initiatives undertaken by the IQAC during the year:

Year	Name of Quality Initiative by IQAC	Date of Conducting IQAC	From Date	To Date	Number of Participants
2019	Curriculum Development	05/07/2019	05/07/2019	05/07/2019	16
2019	Orientation Program for First Year Students	05/08/2019	05/08/2019	05/08/2019	780
2019	IQAC Seminar on Documentation, Feedback, Best Practices	20/08/2019	20/08/2019	20/08/2019	12
2019	TEDx Talk	23/09/2019	23/09/2019	23/09/2019	100
2019	Personal Grooming and Self-Image Workshop	22/10/2019	22/10/2019	22/10/2019	65
2019	Workshop for Students on Basics of MS-Office, Tally, and GST in collaboration with Aptech Computer Centre	19/11/2019	19/11/2019	29/11/2019	156

Year	Name of Quality Initiative by IQAC	Date of Conducting IQAC	From Date	To Date	Number of Participants
2019	Career Summit	20/12/2019	20/12/2019	20/12/2019	260
2020	Workshop on Innovative Startup Ideas	08/01/2020	08/01/2020	08/01/2020	160
2020	Seminar on Cyber Safety and Security	22/01/2020	22/01/2020	22/01/2020	78

These initiatives were designed to enhance the quality of academic, personal, and professional development for students and faculty alike.

INSTITUTIONAL VALUES AND BEST PRACTICES

Gender equity promotion programs organized by the institution during the year:

Title of the Programme	Period From	Period To	Number of Participants (Female)	Number of Participants (Male)
Gender Equality in Politics	26/08/2019	26/08/2019	58	47
Challenges Faced by Working Women in the City of Mumbai	17/10/2019	17/10/2019	62	58
A Workshop on Self-Defence	16/12/2019	16/12/2019	59	54
We Are All Equal - Poster Making Competition	13/01/2020	13/01/2020	10	15

These programs aimed at promoting gender equity and addressing issues faced by women in various aspects of society.

INITIATIVES UNDERTAKEN TO ADDRESS LOCATIONAL ADVANTAGES AND DISADVANTAGES, AND TO ENGAGE WITH AND CONTRIBUTE TO THE LOCAL COMMUNITY:

Year	Initiatives to Address Locational Advantages and Disadvantages	Initiatives to Engage with and Contribute to Local Community	Date	Duration	Name of Initiative	Issues Addressed	Number of Participating Students and Staff
2019	1	1	21/08/2019	01	Street Play on HIV/AIDS	Raising awareness on HIV/AIDS	180
2019	1	1	27/08/2019	01	Blood Donation Drive	Blood donation to hospitals	115
2019	1	1	28/08/2019	01	Apka Swagat Hai	Promoting inclusion and awareness for LGBT community	85
2019	1	1	03/09/2019	10	Artificial Ponds for Ganesh Idol Immersion	Promoting eco-friendly immersion of Ganesh idols	100
2019	1	1	23/09/2019	01	Beach Cleanup Drive	Cleaning beaches post Ganesh Utsav	110
2019	1	1	08/10/2019	01	Hope Against Cancer: Breast Cancer Awareness	Raising awareness about breast cancer	45
2019	1	1	11/10/2019	01	Student Investor Awareness Workshop	Financial planning and literacy for young investors	80
2019	1	1	23/12/2019	01	Smile Drive - Dental Health Check-up Drive	Raising awareness about children's dental health	60
2020	1	1	05/02/2020	01	Donation Drive at Old Age Home	Donation of groceries, toiletries, and	25

Year	Initiatives to Address Locational Advantages and Disadvantages	Initiatives to Engage with and Contribute to Local Community	Date	Duration	Name of Initiative	Issues Addressed	Number of Participating Students and Staff
						medicines to old age homes	
2020	1	1	12/02/2020	01	Disaster Management Workshop	Addressing flood, earthquake, and other disaster situations	75

These initiatives highlight the college's commitment to community engagement, raising awareness on critical social issues, and contributing to the welfare of local communities.

Activities conducted for the promotion of universal values and ethics, along with their details:

Activity	Duration From	Duration To	Number of Participants
Blood Donation Drive in College	27/08/2019	27/08/2019	115
Beach Cleaning Drive	23/09/2019	23/09/2019	75
Blood Donation Drive at Churchgate Station	17/02/2020	17/02/2020	150
Ek Koshish	10/02/2020	10/02/2020	81
Project Shram Dan	10/01/2020	16/01/2020	103
Rally on Road Safety	20/02/2020	20/02/2020	80
Rally on Women Empowerment	20/09/2019	20/09/2019	102
Seminar on Prevention of Sexual Harassment	30/01/2020	30/01/2020	65
Street Play on Transgender and Humanity	21/12/2019	21/12/2019	45
Swachhta Diwas	06/10/2019	06/10/2019	50

These activities foster universal values such as social responsibility, gender equality, environmental consciousness, and ethical behavior, while engaging students in meaningful community outreach.

BEST PRACTICES

Title: Nurturing Young Minds: En-Route Towards Entrepreneurship

A) Goals:

1. To build and develop an entrepreneurial culture in students.
2. To create institutional mechanisms that foster entrepreneurship.
3. To organize events, workshops, fairs, and competitions promoting entrepreneurship.
4. To design a syllabus that provides entrepreneurial knowledge to students and prepares them for entrepreneurship.

B) Context:

At Sydenham College, fostering an entrepreneurial spirit is a priority. The college nurtures a dynamic environment where students are encouraged to develop innovative ideas, hone problem-solving skills, and capitalize on opportunities. The various student-managed societies, including co-operative stores and others, provide a platform for students to engage with real-world business challenges.

C) Practice:

1. Organizing workshops, seminars, and quizzes to promote entrepreneurship.
2. The BMS department organizes *Yountre*, a flagship event that helps students explore their entrepreneurial abilities.
3. Hosting talk shows with successful alumni entrepreneurs to inspire students.
4. Student involvement in societies like Co-operative Stores, BMS Society, BBI Society, NSS, and PSDS, which provides practical business knowledge.

D) Evidence of Success:

1. Falguni Nayar: An alumna and founder/CEO of Nykaa, a multi-brand omnichannel beauty retailer. She has won numerous awards, including the '*Woman Ahead*' award at the Economic Times Startup Awards.
2. Prakash Mundra: An entrepreneur specializing in corporate gifting and fabric manufacturing. He also lectures on entrepreneurship at renowned institutes.
3. Rachna Lachke: Co-founder and Sub Editor of *Arthasanket* Newspaper and *ACT Talks*. She is also a published author and recipient of the Young Entrepreneurs Excellence Award in Bangkok.
4. Keshav Mahamuni: A food entrepreneur and founder of *Ohmazing Fast Food Centre*, with multiple outlets across Mumbai.
5. Students from Sydenham College have won prizes in numerous intercollegiate and intra-collegiate entrepreneurial events, demonstrating the development of their entrepreneurial skills.

E) Problems Encountered:

1. Time Constraints: Balancing business ventures with academic responsibilities is a challenge for students interested in startups.
2. Resource Constraints: Obtaining seed capital is difficult, particularly due to the lack of collateral security for loans.
3. Business Idea Selection: Students often struggle with choosing the right business idea, which is critical to the success of a startup.
4. Lack of Expert Staff: A shortage of entrepreneurship experts to guide students hinders the development of young entrepreneurs.

Title: Augmenting Teachers' Knowledge Through Faculty Development Programs and Research Centre

A) Goals:

1. To upgrade the knowledge and pedagogical skills of teachers.
2. To provide opportunities for induction training to teachers from various disciplines.
3. To enhance the teaching effectiveness of teachers.
4. To develop innovative academic programs and conduct research to diversify knowledge dissemination.

B) Context:

Sydenham College is committed to maintaining a culture of excellence by motivating faculty members to enhance their expertise through participation in faculty development programs (FDPs), refresher courses, and short-term courses. The college also promotes research activities, offering support for faculty members to pursue PhDs and engage in academic research. Most faculty members are PhD holders and act as resource persons at national and international conferences.

C) Practice:

1. The Sydenham College Faculty Development Centre (SFDC), established under the *PMMMNTT Scheme* by MHRD, Government of India, organizes induction programs and specialized training for teachers in emerging fields like BFSI (Banking, Financial Services, and Insurance).
2. The college has a recognized PhD research centre in Business Management and Business Policy & Administration.
3. Faculty members participate in various FDPs, refresher courses, induction programs, and short-term courses organized by universities and colleges.
4. Faculty members also serve as resource persons for seminars, workshops, and conferences at national and international levels.

D) Evidence of Success:

1. Faculty PhD Guides: There are five faculty members who are PhD and M.Phil guides, and many students are registered under them. These faculty members have also served as referees for PhD thesis evaluations.
2. FDP Recognition: The college has been recognized as a Faculty Development Centre by the Ministry of HRD, New Delhi, since 2018. It has successfully organized a number of induction programs and FDPs on BFSI sectors.
3. The Faculty Development Centre has organized multiple training programs benefiting teachers across 26 states and 4 union territories of India, covering various aspects of the BFSI sector, capital markets, and financial planning.

E) Challenges Encountered:

1. Time Constraints: With the choice-based semester pattern and increased teaching workload, faculty members have limited time for self-development, participating in FDPs, and engaging in research activities.
2. Staff Shortage: Some teaching posts remain vacant, which adds to the workload of existing faculty, limiting their ability to participate in FDPs and research activities.

These two initiatives reflect Sydenham College's dedication to fostering entrepreneurship and enhancing the professional development of its faculty members, contributing to both student and teacher success.

HOLISTIC DEVELOPMENT OF STUDENTS

Sydenham College has always been in forefront in fostering comprehensive development of the students in the quest of our mission and vision by focusing not only on academics but also on various facets like cultural, social, emotional and intellectual development of the student.

At Sydenham College, students are endowed with proactive teaching learning environment. Students are also encouraged to participate in various extracurricular activities which helps the students to be distinct from their peers from other college. The College has 22 student managed societies viz; Public Speaking and Debating Society, Co-operative Store, Performing arts society, Marathi Wangmay Mandal, Hindi Sahitya Mandal, English Literary Club, Alumni Cell etc.

Further the college has enriched library with various online journals, magazines, reference books and INFLIBNET software which adds to the knowledge of the students.

Sydenham College is always committed in building long term partnership with community by organizing various activities through NSS, WDC, Extension Unit, Girls Forum and Gymkhana. In the year 2019, the BMS department had organized TedX event in which well-known speakers were invited to deliver motivational talks. Listening to speakers helped the student to raise as a leader and develop self confidence in them.

Placement cell had organized Career Summit in December 2019, where 14 companies had visited the campus. Various seminars, workshop were conducted on Personality Development, personal Grooming, Soft Skills, How to crack Group Discussion and Personal Interview. Many students from BCom, BBI, BMS were placed in various Indian and Multi-National Companies.

In order to promote physical wellbeing of the students, college has well equipped gymnasium which paves the way for healthy lifestyle both among students. Various indoor and outdoor sporting event helps in enhancing the spirit of sportsmanship in students. Participation in various intra and inter-collegiate sports helps in developing a spirit of healthy competition in the minds of the students.

Promoting mental well-being is also the need of hour as students are continuously under mental stress as regards choice of career, competition, peer pressure, behavioural problems and adjusting in the new environment. Faculties of the college plays an important role in providing counselling, mentoring, mind relaxation techniques, meditation etc. This assist the students in emotional release of tension and improve their self-confidence. Various scholarships and prizes at the college level are given to outstanding students who excel in their studies and co-curricular activities. This act as a motivating factor in overall development of the student.

College makes every effort to go extra miles in developing added proficiencies like innovativeness, leadership, business minded, collaboration and team work, communication, creative decision making, problem solving etc.

Thus Sydenham college advocates educating the whole man by supporting cognitive, emotional and social development of the students through effective teaching learning and by encouraging them to be a part of various societies in the college.

Title: Nurturing young minds: En-route towards entrepreneurship

A) Goals:

1. To build and develop entrepreneurial culture in the minds of students.
2. To develop institutional mechanism to foster the sense of entrepreneurship in budding entrepreneurs.
3. To organize events, workshop, fairs, competition that promote entrepreneurship
4. To design syllabus which will provide information to students and prepare them to get oriented towards entrepreneurship.

B) Context:

At Sydenham College, every effort is undertaken to instill the essence of entrepreneurship in the minds of the students. It is quite evident from the fact that college has various student managed societies which encourages them to come up with innovative ideas, develop problem solving skills and help them to seize opportunities thus fostering conducive environment for growth of young entrepreneurs.

C) Practice:

1. Organizing workshop, seminars, quizzes that enables promotion of entrepreneurs
2. BMS department organizes a flagship event Yountre which assist student in exploring entrepreneurial abilities within them
3. Organizing talk show with our alumni who are successful entrepreneurs
4. Students are members of various societies in college like co-operative stores, BMS Society, BBI Society, NSS, PSDS etc which enables them to gain practical business knowledge.

D) Evidence of Success:

1) Falguni Nayar:

An alumni of Sydenham and Founder & CEO of Nykaa a multi-brand omnichannel beauty-focused retail business. Falguni has received many accolades throughout her career. She was awarded the 'Woman Ahead' award at the Economic Times Startup Awards

2) Prakash Mundra: An alumni of Sydenham College, an entrepreneur who owns a business of **corporate gifting** and is a manufacturer of Furnishing fabrics. Prakash Mundra is also a guest lecturer in entrepreneurship at IIM Indore, IIM Vishakhapatnam, SPJIMR, TAPMI and Symbiosis management institute.

3) Rachna Lachke: She is Co-founder and Sub Editor of **Arthasanket Newspaper**, the first and only business economics newspaper in Marathi language. She is also the co-founder of ACT Talks, Sub editor of winners magazine, sub editor of CKP Times. She has also written books on Basics on Investment in Marathi. She has won various accolades and she is the recipient of Young Entrepreneurs Excellence Award at Bangkok.

4) Keshav Mahamuni: A food entrepreneur, who translated his passion into reality. A student of Sydenham College who is the founder of **Ohmazing Fast Food Centre**. At present he owns 05 outlets at various locations across Mumbai serving fusion fast food.

5) Sydenham College students have won prizes at various intercollegiate and intra- collegiate entrepreneurial events, which makes quite evident that students have innate entrepreneurial capabilities.

E) Problems Encountered:

1. Time constraints: Students who are interested in startup ventures has to maintain balance between the business and studies. They find it difficult to manage both their studies and

venture.

2. Resource Constraint: Procuring seed money for starting the business is a herculean task, especially for young students. They find it challenging to acquire loan due to lack of collateral security.
3. Wrong selection of business idea: To make start up successful it is necessary to choose the right business idea. Selecting the best idea requires lot of acumen which student lack.
4. Lack of expert staff with entrepreneurship knowledge also poses a challenge in shaping young entrepreneurs.

Students Satisfaction Survey

Report of Feedback Analysis on Teaching Academic Year- 2019-20

The student's satisfaction survey for the academic year 2019-20 is taken for all Undergraduate and Post Graduate Programmes conducted in the College. The survey is taken randomly once a year for all programmes. Following questions were included considering the overall survey of students about teachers.

- a) Subject knowledge
- b) Communication skills
- c) Sincerity and commitment of the teacher
- d) Interest generated by the teacher
- e) Ability to integrated subject with environment
- f) Ability to integrated content with other courses
- g) Accessibility of teacher inside and outside of the class
- h) Ability to design quiz / test assignment/ examination and project to evaluate students understanding of course.
- i) Teacher encouragement for student's class participation
- j) Teachers advice regarding preparation of examination
- k) Teacher's interaction with students.
- l) Teacher analysis about your performance
- m) Impact of internal marks valuation on your course grade
- n) Teacher providing information about the career prospect
- o) Overall rating of the teacher.

The students were asked to grade teacher(s) on a scale of 'I' to 'IV'. Where:

- 'I' being **Outstanding**
- 'II' being **Very Good**
- 'III' being **Good**
- 'IV' being **Satisfactory**

The analysis of student's survey is summarized into following tables and graphs:
F.Y.B.Com.

This graph shows the performance of individual teachers of F.Y.B.Com (in % form)

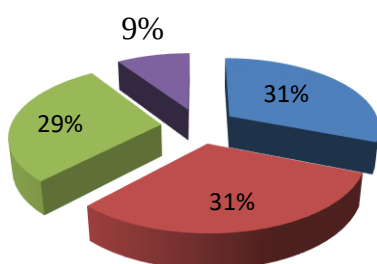
Table no. 1
 Over all Feedback of F.Y.B.Com.

Category	Average
Outstanding	31
Very Good	31
Good	29
Satisfactory	9
Total	100

Figure no. ii

% of Teachers

■ VERY GOOD ■ GOOD ■ SATISFACTORY ■ UNSATISFACTORY



The figure no. ii above, shows that 31% of teachers belong to Outstanding category 31% of teachers belong to Very Good category, 29% of teachers belong to Good category and 9% of teachers belong to Satisfactory category on the parameters.

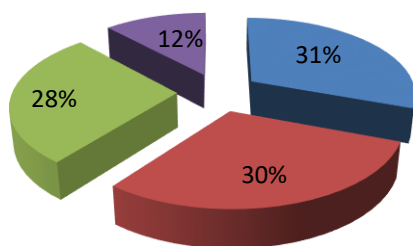
S.Y.B.Com.

This graph shows the performance of individual teachers of S.Y.B.Com (in % form) Table no. 2
Feedback of S.Y.B.Com.

Category	Average
Outstanding	31
Very Good	30
Good	28
Satisfactory	12
Total % of Teachers	100

Figure no .iv

■ VERY GOOD ■ GOOD ■ SATISFACTORY ■ UNSATISFACTORY



The figure no. iv above, shows that 31% of teachers belong to Outstanding category, 30% of teachers belong to Very Good category, 28% of teachers belong to Good and 12% of teachers belong to Satisfactory category on the parameters.

T.Y.B.Com.

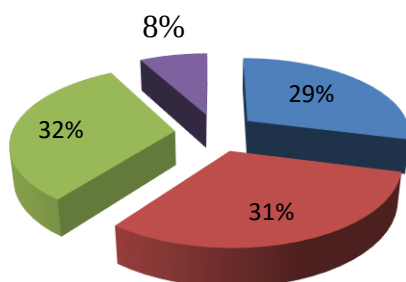
This graph shows the performance of individual teachers of T.Y.B.Com (in % form)

Table no. 3 Feedback of T.Y.B.Com.

Category	Average
Outstanding	29
Very Good	31
Good	32
Satisfactory	8
Total % of Teachers	100

Figure no .vi

■ VERY GOOD ■ GOOD ■ SATISFACTORY ■ UNSATISFACTORY



The figure no. vi above, shows that 29% of teachers belong to Outstanding category, 31% of teachers belong to Very Good category, 32% of teachers belong to Good category and 8% of teachers belong to Satisfactory category on the parameters

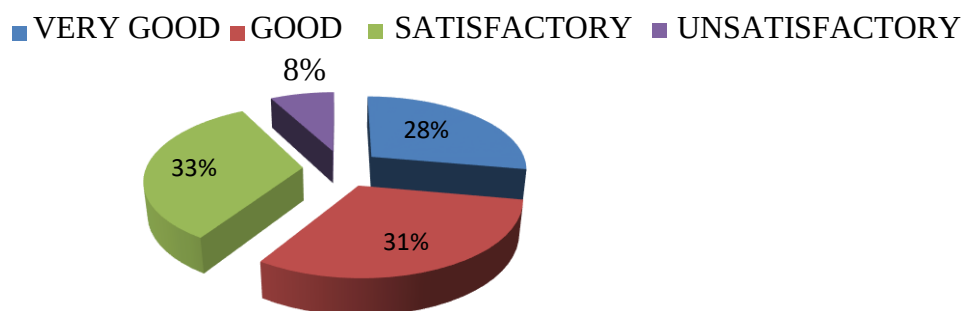
M.Com. Part – I & II

This graph shows the performance of individual teachers of M. Com.Part I & II (in % form)

Table no. 4 Feedback of M.Com.

Category	Average
Outstanding	28
Very Good	31
Good	33
Satisfactory	8
Total % of Teachers	100

Figure no. viii



The figure no. viii above, shows that 28% of teachers belong to Outstanding category ,31% of teachers belong to Very Good category,33% of teachers belong to Good and 8% of teachers belong to Satisfactory category on the parameters.

F.Y.B.M.S.

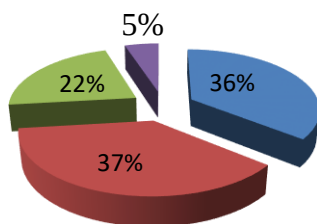
This graph shows the performance of individual teachers of F.Y.B.M.S. (in % form) Table no. 5
Feedback of F.Y.B.M.S.

Category	Average
Very good	36
Good	37
Satisfactory	22
Unsatisfactory	5
Total	100

% of Teachers

Figure no. x

■ VERY GOOD ■ GOOD ■ SATISFACTORY ■ UNSATISFACTORY



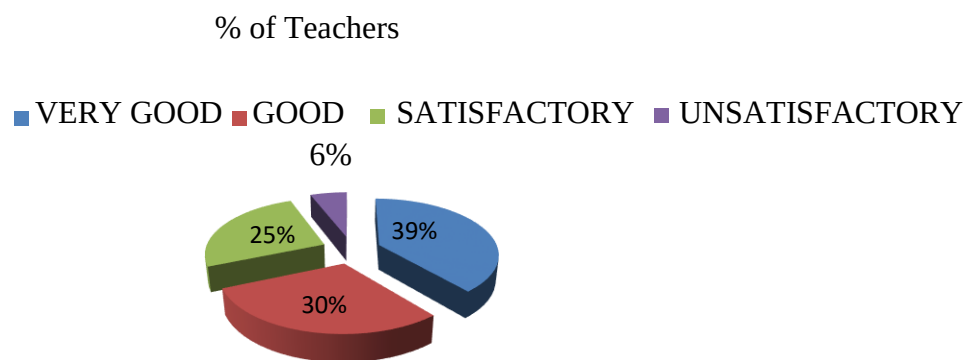
The figure no. x above, shows that 36% of teachers belong to Very good category ,37% of teachers belong to Good category,22% of teachers belong to satisfactory and 5% of teachers belong to unsatisfactory category on few parameters.

S.Y.B.M.S.

This graph shows the performance of individual teachers of S.Y.B.M.S. (in % form) Table no. 6
Feedback of S.Y.B.M.S.

Category	Average
Outstanding	39
Very Good	30
Good	25
Satisfactory	6
Total	100

Figure no. xii



The figure no. xii above, shows that 39% of teachers belong to Outstanding category, 30% of teachers belong to Very Good category, 25% of teachers belong to Good and 6% of teachers belong to Satisfactory category on the parameters.

T.Y.B.M.S.

This graph shows the performance of individual teachers of T.Y.B.M.S (in % form)

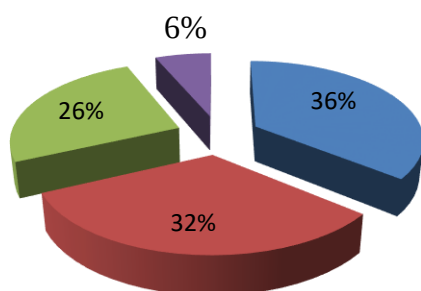
Table no. 7 Feedback of T.Y.B.M.S.

Category	Average
Very good	36
Good	32
Satisfactory	26
Unsatisfactory	6
Total	100

Figure no. xiv

% of Teachers

■ VERY GOOD ■ GOOD ■ SATISFACTORY ■ UNSATISFACTORY



The figure no. xiv above, shows that 36% of teachers belong to Outstanding category, 32% of teachers belong to Very Good category, 26% of teachers belong to Good category and 6% of teachers belong to Satisfactory category on the parameters.

F.Y.B.B.I.

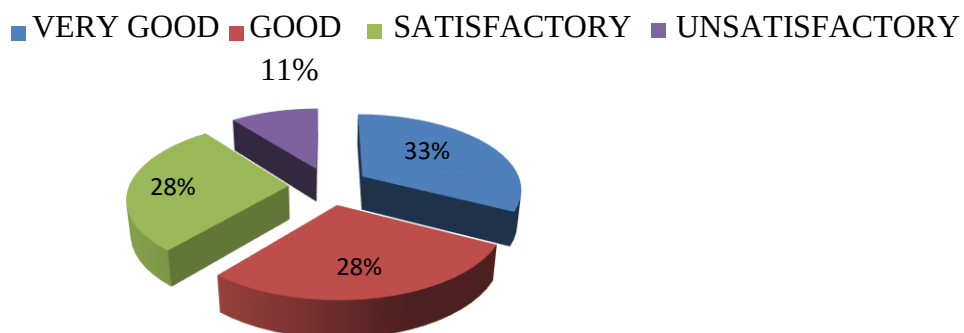
This graph shows the performance of individual teachers of F.Y.B.B.I. (in % form)

Table no. 8 Feedback of F.Y.B.B.I

Category	Average
Outstanding	33
Very Good	28
Good	28
Satisfactory	11
Total	100

%of Teachers

Figure no xvi



The figure no. xvi above, shows that 33% of teachers belong to Outstanding category, 28% of teachers belong to Very Good category, 28% of teachers belong to Good category and 11% of teachers belong to Satisfactory category on the parameters.

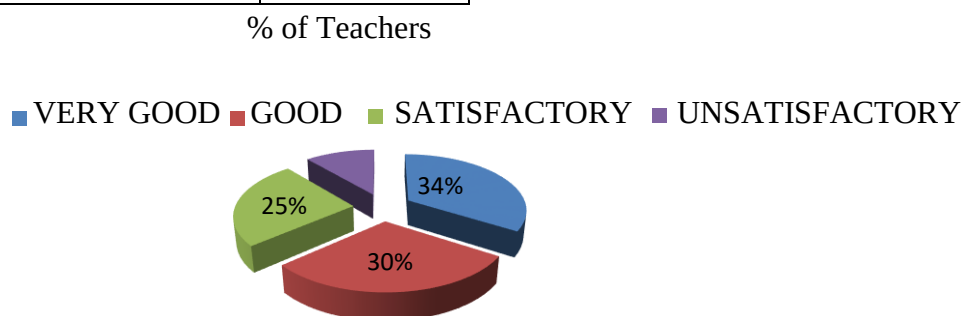
S.Y.B.B.I.

This graph shows the performance of individual teachers of S.Y.B.B.I. (in % form)

Table no. Feedback of S.Y.B.B.I

Category	Average
Outstanding	34
Very Good	30
Good	25
Satisfactory	11
Total	100

Figure no. xviii



The figure number xviii, shows that 34% of teachers belong to Outstanding category, 30% of teachers belong to Very Good category, 25% of teachers belong to Good category and 11% of teachers belong to Satisfactory category on the parameters.

T.Y.B.B.I.

This graph shows the performance of individual teachers of T.Y.B.B.I. (in % form)

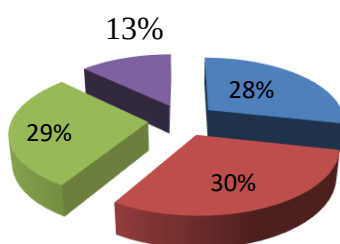
Table no. 10 Feedback of T.Y.B.B.I

Category	Average
Outstanding	28
Very Good	30
Good	29
Satisfactory	13
Total	100

Figure no. xx

% of Teachers

■ VERY GOOD ■ GOOD ■ SATISFACTORY ■ UNSATISFACTORY



The figure no. xx above shows that 28% of teachers belong to Outstanding category 30% of teachers belong to Very Good category, 29% of teachers belong to Good and 13% of teachers belong to Satisfactory category on the parameters.

. The students' feedback for the academic year 2019-20 was received by the survey committee which was assessed and analysed. The results were discussed with the Principal. Wherever improvement was needed, an interaction meeting was organized along with the Teachers and Head of the Departments to discuss the feedback to seek improvement in teaching. Efforts taken by teachers to enhance the quality of their teaching were also appreciated.

Best Practices - II

Title: Augmenting Teachers knowledge through Faculty Development Programs and Research Centre

B) Goals:

- 1) To facilitate up-gradation of knowledge and pedagogy skills of the teachers
- 2) To provide opportunities for induction training to teachers from various disciplines
- 3) To enhance teaching effectiveness of the teachers
- 4) To develop innovative academic programs, conduct research in curriculum which helps in diversified knowledge dissemination in contemporary society

C) Context:

Sydenham College believes in strengthening the culture of excellence in institution by motivating teaching faculties to enhance their knowledge by participating in various faculty development programs, refresher course, short term course etc. Faculties are also motivated to complete their PhDs by providing them conducive climate which facilitate research attitude in them. Teachers are contemplated on ongoing basis towards augmenting their skills which enable them to enhance their professional abilities and earn job satisfaction. This is quite conspicuous from the fact that majority of the faculties are PhD holders and act as resource person in various national and international conference.

D) Practice:

1) Sydenham College Faculty Development Centre (SFDC) has been established under the aegis of SPD, RUSA, Maharashtra, from the grants received from the MHRD, GOI under the 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT) Scheme. SFDC organises two types of training programmes for teachers.

(a) **Faculty Induction Programmes** for newly-recruited teachers from all disciplines to familiarise them in their roles as freshly inducted college and university teachers.

(b) **Faulty Development Programmes** on BFSI Sector to train teachers in the upcoming fields like Capital Market, Mutual Funds, Banking Sector, Financial Service and Insurance Sector..

2) Sydenham College is recognized PhD research Centre in the subject of Business Management and Business Policy and Administration.

3) Faculties participate in various FDP's, refresher course, induction programs, short term course organized by various universities and colleges.

4) Faculties also acts as a resource person in various national and international seminars, Workshops, conferences etc.

E) Evidence of Success:

1) There are 05 faculties who are PhD and M.Phil guides from various universities and students are registered under them. Faculties have also acted as PhD referee for evaluation of PhD thesis.

2) Sydenham College has been recognized as the Faculty Development Centre under the PMMMNMTT, MHRD, New Delhi from August, 2018. The Faculty Development Centre has organized a number of Faculty Induction Programmes and Faculty Development Programme in Banking, Financial Services and Insurance sector.

Programmes Organised under PMMMNMTT:

SFSC has organised the following training programmes for teachers from 26 states and 4 union territories of the country since its establishment in the year 2018-19.

Programmes & Venue	Duration	Beneficiaries
First Induction Programme Rajaram College, Kolhapur	3-28 Dec. 2018	48
Second Induction Programme Government Vidarbha Institute of Science & Humanities, Amravati	3-28 Dec. 2018	32
FDP on Capital Market Sydenham College of Commerce & Economics, Mumbai	1-10 Dec. 2018	33
FDP on Insurance Sector ML Dahanukar College, Vile Parle, Mumbai	8-17 Dec. 2018	33
FDP on Financial Planning & Counseling Keralaya Samjam's Model College, Dombivli, Thane	8-17 Dec. 2018	30
FDP on BFSI Sector Sydenham College of Commerce & Economics, Mumbai	15-24 Dec. 2018	21
FDP on Research on BFSI Sector Sardar Patel University, Vallabh Vidyanagar, Gujarat	17-26 Dec. 2018	32
FDP on Research on BFSI Sector Rajaram College, Kolhapur	3-12 May, 2019	48
FDP on BFSI Sector Thakur College, Kandivali, Mumbai	4-13 May, 2019	30
FDP on BFSI Sector Dnyanprassarak Mandal's College & Research Centre, Goa	14-23 May, 2019	33
Research Methodology Workshop on BFSI Sector Rajaram College, Kolhapur	20 Feb.-4 Mar. 2020	55
Research Methodology Workshop on BFSI Sector Government Vidarbha Institute of Science & Humanities, Amravati	24 Feb.-8 Mar. 2020	38
FDP on BFSI Sector – Recent Trends & Future Outlook H.R. College of Commerce & Economics, Mumbai	15-24 Feb.2020	24
FDP on Capital Market & Mutual Funds Ramanand Arya DAV College, Mumbai	29 Feb.-9 Mar. 2020	23
FDP on Indian Financial System J.Z. Shah and H.P. Desai Commerce College, Amroli, Surat	7-16 Mar.2020	43
Research Methodology Workshop on BFSI Sector PES's Arts & Commerce College, Phondaghat,	29 Feb.-9 Mar. 2020	39

Sindhudurg		
One Week Online FDP on Developing New Generation Teachers Wilson College, Mumbai	18-23 April,2020	283
One Week Online FDP on Transition Management for Higher Education during Covid-19 Pandemic – A Roadmap, CSIBER, Kolhapur	2-6 May,2020	273
One Week Online Research Methodology on BFSI Sector SPU, Gujarat, SRTMU, Maharashtra & S.K. College, Navi Mumbai	2-6 June,2020	---
Total Teacher Beneficiaries		1118



Valedictory Function of First FDP on Capital Market organised at Sydenham College under PMMMNMTT,
New Delhi (Chief Guest, Dr. Kulkarni, the Hon. Pro-VC, University of Mumbai)

F) Challenges Encountered:

- 1) With the Choice based semester pattern curriculum, teachers has to spend more time in teaching and completing the syllabus. Further examination and result work leaves less time for faculties for self-development.
- 2) Since some of the teaching posts are vacant, the extra burden has to be shouldered by the existing staff, leaving them no time to participate in FDP's and research activities.