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Message from Chairman Desk

JIS University was established through the Legislative Act of the Government of West Bengal, viz., JIS University Act, 2014. However, the University started its operation in August 2015 by admitting the first batch of students. The University will complete its 3 years of operation in July, 2018. Although it is very young, we have been taking up a large number of extra-academic and extra-curricular activities in addition to regular academic activities. This is done with a continuous effort to see that all-round development of the students takes place. Young-spirited, industry experienced and qualified faculty members not only teach the subjects as per the course curricula but also make sure to build a strong foundation for the students that will aid them to overcome life-hurdles in future.

Among the activities we regularly practice is celebration of important days such as National Youth Day, Guru Nanak Birthday, International Mother Tongue Day, Birthday of Tagore, International Yoga Day, and Teachers’ Day etc. We regularly arrange interaction of our students with the experts from industry and other reputed academic institutions. We have formed various clubs like Sir J. C. Bose Bioscience Club to encourage the students’ participation in innovations. With the help of the faculty of Juridical Sciences, the Law students have started a Legal Aid Cell for the poor people. Seminars are held on different scientific issues as well as on ‘Group Discussion and Interview Techniques.’ The NSS Unit of the University participated in tree plantation, blood donation, helping the orphan children etc.

The University has seen the visits of many internationally reputed personalities like Prof. Esta Van Heerden from BioSaense Solution Pty Ltd, South Africa, Prof. Joshua M. Alter, St. John’s University, School of Law, Director of Asia Programs, Adjunct Professor of Law, Mr. Jonathan Ward, Principal Commercial Officer, U.S. Consulate General, The American Center, Kolkata, Dr. Sarah Jean Kelly, the Dean and Faculty of Law, St. John University, Dr. Ashok Kumar Mitra, Global Innovation Consultant for Consumer Health Care Product Development and Strategy, former Scientist of P & G, USA, Dr. Siddhartha Saran Ghosh, the Research Director of Virginia Commonwealth University, USA etc.

Most of the departments organized a host of activities such as invited talks by the industry and academic experts, industry visits by the students, interactive session of NSS volunteers with Col. Rajyavardhan Singh Rathore, the Hon’ble Union Minister, Dept. of Youth Affairs & Sports, GOI, holding of the State Level Grand Finale of Khadi Miss India, 2017, all religion conglomeration etc.

In the first newsletter of the University an effort has been made to highlight all such activities in details. I hope that the information contained in the newsletter will be very useful to all its readers.

Prof. (Dr.) Bimal Chandra Mal
Vice-Chancellor
JIS University
Message from Editor Desk

I am delighted to present the First Issue of our University News Letter. As the News Letter would speak volumes of the appreciable activities on almost all fronts of academic life in the University academic ambience, I express my pleasure over the enthusiastic interest among the academia of the University. As usual, the current issue will attract the attention of its readers not only within the University and also outside.

I congratulate the efforts put by all in preparing this issue so informative.

Prof. Samir Kumar Bandyopadhyay
Advisor to Chancellor, JIS University

Message from Co-Editor Desk

Welcome to the first issue of JIS University newly e-newsletter. We hope you enjoy this new way to keep you informed of the exciting news of our faculty, students and alumni of the University. I would like to take this opportunity to thank the editorial team. Notable achievements by our students, alumni and institute colleagues have also been highlighted along with one articles that our readers should find interesting. On behalf of the Editorial Team I would request students, faculty members and staff of the University to give their inputs for future newsletters.

Prof. Tapa Kumar Chatterjee
Dean Academic, JIS University
Preface

The Newsletter of the JIS University will be published twice in a year. This newsletter is conceived of as a meeting place for students, faculty, staff, alums and friends to catch up on what’s happening in the Department, learn of upcoming events, and read the news and accomplishments of the many people connected in different ways to the University. The newsletter also covers news around education, exchange program, research and campus life and it is aimed at students, alumni, and the academic community. The newsletter provides information about what is happening at the JIS University. It includes also reports on the research done in the different departments and upcoming events in different departments.

The electronic newsletters, commonly called e-newsletters, were an emerging form of communication in the 1980s. The e-newsletters are an efficient and inexpensive way to communicate. They are useful for delivering up-to-the minute content, and they encourage immediate feedback. Authors can contribute to overflowing inboxes since it is e-newsletter. They are preferred over websites as a means of conveying information. Higher return on investment (ROI) is realized from e-newsletters compared to many other kinds of communication or advertising. Creators of e-newsletters need to weigh the potential benefit of reaching an audience with e-newsletters. Authors have also written valuable articles that provide best practices for e-newsletters in general. It is targeted a large number of audience in the academic arena.

Higher education is one segment of society that has embraced the production of e-newsletters. Many factors seem to make this type of communication well suited for distribution by universities, including low cost and ease of delivery, as well as a potential readership base that is more likely to have e-mail and internet access. Universities produce campus-wide as well as departmental e-newsletters, some of which are intended for internal audiences and others for external audiences. Although higher education generates a great number of e-newsletters, it is a best practice recommendations intended specifically for university e-newsletters.

Many articles about e-newsletters focused on research about reader opinions concerning e-newsletters and on research about the effectiveness of e-newsletters. Other articles touted the benefits of and listed recommendations in favor of using e-newsletters rather than print newsletters. Under the category of goals for e-newsletters, the best practices are to contribute for creating a professional and appealing publication that could result in positive ethos for an institution or brand.

E-mail beckons as an inexpensive way to alert thousands of people about alumni events or graduates’ achievements. E-newsletter preparers should also provide links to websites for the reference papers. Faculties as well as students are benefitted from the reference and can understand the latest works in the global academic fields.

In JIS University each newsletter is e-newsletter. It is my appeal to all of you to make the effort of publishing e-newsletter in JIS University a successful story.

Prof. Samir Kumar Bandyopadhyay
Editor
Different Schools of JIS University

JIS University was established through the Legislative Act of the Government of West Bengal, viz. JIS University Act, 2014 (West Bengal Act XXII of 2014) that came into force in February, 2015. The University has a mission to be one of the top class universities in India and a preferred destination for students, research scholars and faculty members alike. JIS University had been established with a view to providing not only world class education but also a world of opportunities to students, academic as well as otherwise. The University has a number of schools for pertaining different programs under these various schools. Students at the JIS University at a glance in figure 1.

![Students at the Lobby of JIS University](image)

Figure 1 Students are at the Lobby of JIS University

SCHOOL OF SCIENCES

The School of Sciences is constituted with five departments in JIS University. These are:

- **DEPARTMENT OF PHYSICS**
- **DEPARTMENT OF CHEMISTRY**
- **DEPARTMENT OF MATHEMATICS**
- **DEPARTMENT OF EARTH SCIENCES**
- **DEPARTMENT OF MICROBIOLOGY**
DEPARTMENT OF PHYSICS

The Department of Physics at JIS University wishes to provide quality teaching along with state-of-the-art research facilities to ensure proper learning and understanding of the basic principles behind. They are groomed in order to become competent enough to face the global challenges from an academic perspective as well as from industry. The Department currently offers Integrated B.Sc.-M.Sc., M.Sc., Integrated M.Sc.-Ph.D. and Ph.D. in Physics. The diverse qualifications of the faculty members ensure expertise in all aspects of Physics as well as in various interdisciplinary areas. Departmental laboratory is well equipped with instruments, circuitry to run practical classes and projects smoothly.

Physics is the search for order (natural laws) that makes it possible to describe our world (or rather, a part of it) with the utmost simplicity and accuracy. Even though such description uses mathematics as its language, it is uncertain whether or not mathematics is able to fully describe the world of nature as it is in reality. Therefore, a worldview based on physics may be only a representation mapped out in our minds, allowing us to comprehend a part of our real world. If this is true, physics can never offer us anything more than the best approximation of the order that encompasses just a fraction of the real world. The progress of physics (or natural sciences at large) is a never-ending, self-evolving, and self-correcting process.

Research in our department is traditionally organized within the general areas of Plasma Physics, Condensed Matter, Optics, Spectroscopy, and Theoretical physics. Also, there is a rich collection of books in the library for students and teachers. Student of the Physics Department is working in a laboratory. It is shown in figure 2 (a), (b) and (c). The department was established in the year 2015.

Figure 2 Students of the Physics Department are working in the different laboratories.
DEPARTMENT OF CHEMISTRY

Department of Chemistry established in 2015 and is situated at the first floor of the JIS University. Department of Chemistry at JIS University provides high level quality teaching along with state of art research to cultivate curious and inventive scholars such that they become competent enough to face the challenges from academic as well as from industry.

The department is willing to disseminate achievements in chemistry to other universities and research institutions at home and abroad, thus contributing its share to the global scope of knowledge. Through the collaboration with the industry, the application of research in the department and academic achievements are to contribute to the development and progress of the country. It is the basic vision of the department of chemistry in JIS University.

Department currently offers B.Sc.(H), M.Sc., Integrated M.Sc.–Ph.D. and Ph.D. in Chemistry. Project work and seminar presentation are introduced in all courses to get an overview of the ongoing research and recent development in the subject. Students are working various experiments in the laboratories of the department (Figure 3).

Figure 3 Students of the Department are used different instruments

DEPARTMENT OF MATHEMATICS

The Department was established in 2015. The department has competent faculties with wide knowledge in pure & applied Mathematics. The broad areas of specialization of the faculties are Algebra, Analysis, Optimization, Continuum Mechanics, Fuzzy mathematics etc.
The Department conducts course for Ph.D. degree in Mathematics. Our department wishes to provide high level quality teaching as well as research to cultivate scholars so that they become competent enough to face the global challenges from academic perspective as well as from industry. The faculties interact with various national and international bodies, research centers and Universities. The computer lab is used by faculty members and students for their research.

The goal of the area of specialization in Pure Mathematics is to provide advanced training in Algebra, Analysis, and Geometry, in a way sufficiently solid and comprehensive to allow investigating problems of sophisticated mathematical structure and of high level of theoretical difficulty. Pictures of the board in the class room shows the process of teaching in the Mathematics Department. It is shown in figure 4.

![Mathematical equations on the board](image1)

**Figure 4** Mathematical equations are displayed on the board

**DEPARTMENT OF EARTH SCIENCES**

The Department was established in 2015. The popularity of Geology needs no special mention. The increase of student strength with time is a direct indicator of the popularity of the department. The interdisciplinary nature of the department has raised the possibility of it being addressed as the Department of EARTH SCIENCES. The popularity of the subject has attracted 2 research scholars from the field of Geography. The department of Geology at JIS University provides high level quality teaching. The Department currently offers B.Sc. (H) in Geology, M.Sc. in Applied Geology and Ph.D. The diverse qualifications of the faculty members ensure expertise in all aspects of Geology. Field study of Geology is a major aspect of interest. Students are exposed to studying of rocks for finding their structure and necessary measurements. It is sown in figure 5.

![Faculty member demonstrating specific experiment](image2)

**Figure 5** Faculty member demonstrates the specific experiment
The Department of Microbiology prepares the graduate students in different areas of microbiology, so they can attain leadership’s positions in the health systems. They study the epidemiology, pathogenesis, processing, clinical diagnosis and prevention including vaccine development of the different microorganisms. They apply modern research techniques for the in-depth studies of bacteria, fungi, virus and parasites of medical relevance as well as the host immunological response.

Microbiology is the study of the biology of microscopic organisms - viruses, bacteria, algae, fungi, slime molds, and protozoa. The methods used to study and manipulate these minute and mostly unicellular organisms differ from those used in most other biological investigations. Recombinant DNA technology uses microorganisms, particularly bacteria and viruses, to amplify DNA sequences and generate the encoded products. Moving genes from one microorganism to another, or amplifying them within microorganisms, permits application of microbial skills to solve medical and environmental problems. Many microorganisms are unique among living things in their ability to use gaseous nitrogen from the air for their nutritional requirements, or to degrade complex macromolecules in such materials as wood. By rearranging the genes that control these and other processes, scientists seek to engineer microorganisms that will process wastes, fertilize agricultural land, produce desirable biomolecules, and solve other problems inexpensively and safely. Students are doing their computer laboratory as shown in figure 6.

Figure 6 Computer Laboratory in the Department

SCHOOL OF BIOTECHNOLOGY

Department of biotechnology currently offer courses on two subjects i.e., biotechnology, microbiology. Our department provides elevated quality of teaching along with state of art research facilities to nurture the curious and inventive scholars such that they become adequately proficient to face the global challenges from the perspective of academia as well as industry.
Department of Biotechnology currently offers Integrated B.Sc.-M.Sc., M.Sc., Integrated M.Sc.–Ph.D. and Ph.D. in Biotechnology. The diverse qualifications of the faculty members ensure expertise in all aspect of Biotechnology as well as in various interdisciplinary areas. Department ensures academic flexibility and good deal of faculty-student interaction. Project work and seminar presentation are introduced in all courses to get an overview of the ongoing research and recent development in the subject.

The Biotechnology degree program provides students with strong core science concepts and an application-oriented undergraduate education. Students gain the knowledge and core set of skills that span across basic sciences, technology, engineering, and mathematics (STEM) education. Some of the pictures in figure 7 shows the activities of students in the laboratory.

Figure 7 shows the activities of students in the laboratory

**SCHOOL OF ENGINEERING**

The School of Engineering at the JIS University welcomes creative young people who can face the challenge of invigorating future society by acquiring knowledge and understand scientific principles. Engineering is a creative discipline. The School of Engineering provides education and research that place emphasis on fostering diverse creativity. Scientific and technological research cannot be clearly categorized as either basic science or applied science. The School of Engineering helps students to develop their creativity by offering not only courses for deepening technical expertise but also design workshops that require self-commitment, problem-solving projects, field trips, internships and graduation research. JIS University has stated the program in Computer Science and Engineering. Students of Computer Science and Engineering at the lobby of JIS University as well as in the laboratory are shown in figure 8.
SCHOOL OF PHARMACEUTICAL SCIENCE & TECHNOLOGY

Pharmaceutical Technology is increasingly becoming interdisciplinary and occupying its position at the essential point of various scientific queries due to its assortment. The School was established in 2016 at JIS University Campus to provide undergraduate education in Pharmaceutical Technology (B. Pharm course) with prior approval from Pharmacy Council of India.

The School of Pharmaceutical Technology at JIS University provides high level quality teaching along with highly sophisticated instruments and well-furnished laboratories to cultivate curious and inventive scholars such that they become competent enough to face the challenges from academic as well as from industry. The School is equipped with a beautiful Pharmacy Museum and medicinal plant garden which gives access to the students for hands on training of the subject. Project work (Skill X) and seminar presentation are introduced in all semester to get an overview of the ongoing research and recent development in Pharmacy. Students are shown in classroom as well as in the laboratory. It is shown in figure 9.
SCHOOL OF COMMERCE & MANAGEMENT STUDIES

DEPARTMENT OF BUSINESS MANAGEMENT

The Management courses in the Department of Business Management are designed to train students who could be effective managers in the business, government, and non-profit sectors, and who would have the skills, understanding, and perspective to move among those sectors effectively. The management programs are designed to give students a more in-depth understanding of the business world, and prepare them for successful careers as leaders, managers, executives and innovators in their chosen field. With an MBA from this University, a student will have:

- Enhanced analytical skills.
- Advanced skills and knowledge in core business fields
- Awareness and sensitivity to ethical issues in business
- An understanding of international and cross-cultural environments
- The capacity to perform effectively in groups

Students, Faculties and Vice-Chancellor are in a special class of management studies. Also one of the faculty member of the department is taking regular class. Students are also present in the Seminar.

Figure 10 Faculty member of the department is taking class as well as students are attending a seminar

SCHOOL OF EDUCATION

B.Ed. is a professional course that prepares teachers for middle level (Classes VI-VIII), Secondary (Classes IX-X) and Senior Secondary (Classes XI-XII) levels. The main aim of JIS University’s B.Ed. curriculum is to provide hands on experience to teacher trainees on accessing and processing information in improving the method of teaching and learning. The course is designed to inculcate ethics, values and modernity in students and to give them an opportunity to apply those values to move ahead and make a mark. Some of the pictures of activities in the department are shown in figure 11.
Law or legal science is a lucrative career option these days. People tend to take up legal studies as it provides various scopes. Previously, the only option that was available for the lawyers was private practice. But presently, due to the emergence of various law firms, corporate houses and specifically variety in course curriculum and subjects, different sectors such as banking and insurance offer lucrative jobs for the law graduates.

The integrated BBA-LLB program is aimed at training corporate lawyers who understand the intestacies of business along with the law governing the same. Special understanding of the business law such as banking, corporate laws, taxation, competition, investment, insurance, merger and acquisitions are imparted throughout this course. The Course further includes understanding in finance, human resource management, marketing, international business which help a student to obtain the required skills of a corporate lawyer.

JIS University offers various contemporary papers in legal sciences along with the compulsory papers offered by the Bar Council of India (BCI). The course structure is designed in such a way that the student will go through an overall development that is essential to build a successful career in the legal arena. Regular Moot Courts, debates, seminar, court visits, lok adalats and legal aid camps organized by the department of legal sciences adds to the legal skill development of the law aspirants. Apart from the skill developments programs, the University organizes class test from time to time, conducts mid-term examination and gives assignments to the students which include projects so that the students are well acquainted with the subjects. Some picture of mobile court room is shown in figure 12.
SCHOOL OF HOTEL & HOSPITALITY ADMINISTRATION

The program is designed to assist the student in his or her preparation for a rewarding career in the management of hospitality operations. The basic aims and objectives of the course are:

- To develop students’ critical thinking and to refine their analytical, problem-solving and decision-making skills.
- To develop the managerial skills, abilities and competencies essential to all professional managers, with specific characteristics needed for managing hotels, restaurants and related operations.
- To provide the diversified knowledge and broad and varied professional background required in the management and operation of the modern hotel.
- To provide a broad understanding of the fundamental principles of the basic areas of business relating to the fundamentals of management within the hospitality industry.
- To offer training within the hospitality industry providing students with the opportunity to integrate their academic skills with substantive work experience.
- To instruct individuals in marketing and sales promotion strategies applicable to a wide variety of hospitality industry settings.
- To provide students the academic, technical and intellectual background that would enable them to pursue higher studies in high-quality graduate and professional schools.

The figure 13 shows the demonstration of preparation of food by Faculty Member.

Figure 13 Preparation of food is shown to students of the Department
Letter to the Editor

Handshaking Theorem

A graph $G = (V,E)$ consists of a finite set $V$ of elements, called vertices (also called points or nodes) and another finite set $E$ of pairs of elements of $V$ of the form $(u, v)$ (also written as $uv$ or $vu$). The element $(u, v)$ is called an edge (also called line).

A group leader of a company was addressing in a training programme, a group of 7 newly recruited trainees of the company, who have assembled for the programme. The leader who was fond of numbers was making a remark as follows: Among the 7 trainees assembled here it could be that there are trainees who know each other, trainees who know all others, trainees who do not know each other as well as trainees who do not know anyone in the group. But there will be a trainee in this group who already knows an even number (including the even number zero) of other trainees.

It is interesting to note that this problem could be solved with the use of graphs. Suppose that seven trainees are named as $H,J,K1,K2,P,Q,R$. Suppose $H$ knows $R$ (even before meeting $R$ in this training programme); $J$ knows $K1,P,Q$; $K1$ knows $J,K2,Q$; $K2$ knows $K1$; $P$ knows $J$; $Q$ knows $J,K1$; $R$ knows $H$. It is clear that $H$ knows only one other trainee; $J$ knows three; $K1$ knows three; $K2$ knows 1; $P$ knows 1; $Q$ knows 2; $R$ knows 1. These numbers are called as ‘acquaintance numbers’. Thus the acquaintance numbers of $H, J, K1, K2, P, Q, R$ are respectively $1, 3, 3, 1, 1, 2, 1$. The claim of the leader is verified, since (at least one of them) $Q$ knows an even number of other trainees.

The situation can be modeled by a ‘graph’. For each trainee we associate a point (indicated by a small circle) in the plane. We label the points as $H, J, K1, K2, P, Q, R$. We join two points by a line (straight or curved) if the two trainees represented by the points ‘know’ each other. The resulting diagram which is an example graph, is in Figure 14. The number of lines at a point gives the acquaintance number of the corresponding person.

Consider another situation as follows: Suppose $H$ knows only $R$; $J$ knows only $K1$; $K1$ knows only $J$; $K2$ knows none; $P$ knows only $Q$; $Q$ knows only $P$; $R$ knows only $H$. Then the corresponding graph is shown in Figure 15. The acquaintance numbers are 1,1,1,0,1,1,1. Still one of these numbers namely 0 is even, again verifying the claim.

Note that if the number of trainees in our discussion is 6 or 8 instead of 7, the claim need no longer be true. For example, if there are only 6 trainees $H,J,K1,K2,P,Q$ such that $H$ knows only $J$; $J$ knows only $H$; $K1$ knows only $K2$; $K2$ knows only $K1$; $P$ knows only $Q$; $Q$ knows only $P$, then the acquaintance numbers are 1,1,1,1,1,1, all of which are odd.

![Fig.14: Graph of an acquaintance of trainees](image-url)
So, for the claim to be true the number of trainees in the group should be odd. This fact can be proved as a consequence of a basic theorem, known as “Handshaking Theorem” in graph theory.

Handshaking Theorem: In any graph, the sum of the degrees of the vertices is twice the number of edges.

Prof. G.S. Tomar
Director, MIR Research Institute
Gwalior, India

Co-curricular Activities at JIS University

A University essentially marks the ultimate or penultimate phase of a student’s academic life; however, students generally do not get to spend as considerable an amount of time in a University as much as they get in their schools. Be that as it may, the role of a University in shaping a student’s personality cannot be overlooked. In JIS we fully appreciate and stress upon this role of a University and to that end, JIS University has come up with a host of innovative and novel features that ensure that the all-round development of a student takes place in a holistic and commensurate manner.

1. NSS: The National Service Scheme or the NSS is a scheme developed by the Government of India in order to encourage and nurture social and philanthropic skill amongst students by getting them actively involved in various facets of the society that warrant intervention form students. JIS University has two functional self-financed NSS Units that are run under the able guidance of its various faculty members who regularly organize programs of social and educational relevance and students actively and willingly participate in such ventures.

2. Legal Aid Cell: The Legal Aid Cell of JIS University is run and managed by the Department of Juridical Science which regularly organizes various seminars and talks on topics of legal and social interest.
The Cell frequently organizes legal aid camps and awareness camps in the campus as well as outside the campus and in such camps public participation is actively solicited and ensured. This helps the students in getting a hands-on experience on the niceties of the working of the legal machinery in India.

3. **Entrepreneurship Development Cell**: This cell is run and managed by the Department of Management Studies. The main aim of this cell is to nurture and hone the skills of budding entrepreneurs among the students and to that end this cell works immensely by identifying such talent among the students and then providing them support in such means as may be necessary to ensure that the students are not held back by reason of lack of resources.

4. **Start-up Cell and Innovation Club**: These two initiatives are run by the University as a whole for the purpose of ensuring that students who intend to float a start-up of their own or enter into their own venture to receive support from the University. The Innovation Club of the University is a club wherein various innovations and innovative ideas from various students of the University are displayed and are open to public inspection and consultation.

5. **Science Club**: As the name suggests, the Science Club of the University is designed exclusively for scientific innovations and inventions by the students. The Club works in the premise of providing support to the students in their endeavor in science and by showcasing and popularizing their talents in science. A scientific invention form the students of any discipline is encouraged and upheld by this Club.

6. **Industry-Institution Cell**: As the name suggests this Cell has been designed to ensure that the Industry-Institution interface happens regularly and effectively in the University. It embodies one of the aims of the University that students studying here should get an over-all and all-round education that focuses not only on their theoretical skills, but on their practical knowledge as well.

7. **Industrial Tours**: Industrial tours are a regular affair at the JIS University to ensure that the students get first-hand knowledge of the practical application of the theory that they learn in their classrooms. This is an indispensable and important part of the overall University curricula and is applied across disciplines to all courses being offered at the institute.
8. **Debates, quizzes and talks**: Debates, quizzes, talks and seminars are again a regular and integral part of the University life and students are introduced to such practices from their very first year of study and to that end students are also encouraged to take part in such activities happening in other places as well. Such activities take place on a weekly, if not daily, basis in the University.

9. **Drama and Photography Clubs**: These two clubs have been set up in the University with the sole aim and purpose of honing and encouraging the photography and drama skills of the students. In other words the fine skills of the students are fine-tuned through the means of these clubs, the University actively encourages these skills in the students by organizing regular contests and exhibitions and shows of such drama and photography by the students.

10. **Sports Club**: The University also has an up and running sports club to encourage the students to take active part in sports and allied physical activities. This is so because the University firmly believes in the motto “all work and no play makes Jack a dull boy” and the University regularly organizes sports for the students. A cricket competition between the faculties and the students is an annual affair at the University.

As mentioned above, a University goes a long way in developing and nurturing a student’s identity and outlook in life and in JIS we take this responsibility very seriously and thus, these are the efforts on our part, to responsibly and positively play a constructive role in the life of every student who comes to study at JIS.

**Activities in Different Departments/Units/ University**

NSS unit of JIS University organized Fire Drill on March 19, 2018, 12.00-1.30 pm, at JIS University campus in collaboration with Fire and Security Association of India.

E Cell inauguration at JIS University, an initiative by the Department of Management Studies, was featured in Your Story Bangla. It is shown in figure 16.

On 16th March, 2018, an Invited Talk was conducted by the Department of Education at JIS University auditorium 'Enhancing Professional Capacities' by Ms. Byapti, Assistant Prof. of Government Teachers Training College (Malda). She explained the importance of art education in curriculum. The program was conducted by Ms. Debolina Addhya, HOD of the Department for Education. The figure 17 showed some photos demonstrating the program.

"A true entrepreneur is a doer, not a dreamer"

On 15th March, 2018 the grand opening of the Entrepreneurship Development Cell of JIS University was led by the Department of Management Studies in partnership with Aich Group of Companies and in association with National Entrepreneurship Network (NEN), a Wadhwani Foundation initiative. The Chief Guest of the event was Mr. Indranil Aich, Director of Aich Group of Companies. The event was also graced by Mr. Subhabrata Bhattacharjee, Regional Manager of Wadhwani Foundation as well as Mr. Hindol Goswami, Deputy Editor, Bangla YourStory and Co-Founder & Director, Startfed. Some of the pictures of the event were shown in figure 18.
Together We Are - an interactive program with JIS University students and faculties on the Understanding of gender -sexuality, Violence and Resistance, organized by Sappho for Equality witnessed a deep understanding and intriguing discussion led by Ms.Sumita, Dr. Ujjaini Srimani and her team. A path breaking initiative by the Department of Education on touching the burning issues of gender equality, gender preferences, sexuality, the societal barriers and its implications on individual and population at large held at JISU auditorium on 14.3.2018. Faculties and students of the different departments joined the enticing session. Ms. Debolina Adhya and Ms. Arpita Mukherjee of the Department of Education jointly coordinated the program. The photo of the program is shown in figure 19.

![Figure 19 Together We Are - an interactive program with JIS University students](image)

The JIS Family salutes the strength & warmth of women worldwide and reckons that a single day isn't enough to celebrate womanhood. With that belief, JIS University celebrated "Women Empowerment" on 12th of March, 2018 at the JIS Auditorium; 3:00 p.m. onward. Our Honourable Vice Chancellor Prof. B.C. Mal presented the welcome address for the occasion. Our beloved Dean Prof. T.K. Chatterjee threw light on the cause of Women's Day. Dr. Dipankar Ghosh, Dr. Souvik Chatterjee dedicated song to women in their lives, Dr. Moumita Poddar spoke about the relevance of Women's Day and status of women in Global economic platform. Figure 21 showed the program at a glance.

"You educate a man; you educate one single person. You educate a woman; you educate an entire generation" - Brigham Young. The JIS Family salutes the strength & warmth of women worldwide and reckons that a single day isn't enough to celebrate womanhood. With that belief, JIS University invites all of you to celebrate "Women Empowerment" on 12th of March, 2018 at the JIS Auditorium; 3:00 p.m. onward. The Chief Guest is Ms. Anindita Sarbadhicari, Acclaimed Filmmaker. Other guests of honor are Mrs. Manua Banerjee, Mrs. Surjyasiikha Das, Mrs. Moumita Poddar, Mrs. Shimul Dutta Ghosh, Mrs. Manjistha Dutta Das, Mrs. Debolina Adhya and Mrs. Sanhita Banerjee Chattaraj.
A Student-Faculty Picnic was organized by the Science departments on Sunday, the 25th of February. Venue: Kalyani Lake Park, Kalyani.

On 6th March, 2018, the Grand Finale of the First Annual Edition of JIS University's Saraswati Puja Sera Samman 2018 culminated in a roaring success. The program was attended by 31 schools and colleges from all around West Bengal. In the program eminent personalities & dignitaries like Hon’ble Vice Chancellor Prof B. C. Mal, Hon’ble Director Dr. T. K. Saha, Prof (Dr) Jayanta Bhattacharya, Prof. (Dr.) Shibnath Banerjee, AGM JIS Group Shri Bidyut Majumder, Chairman of Panihati Municipality Shri Sri Swapan Ghosh, Famous Bengali Language Elocutionist Sutapa Bandyopadhyay, Khardah Police Officer In Charge Shri Mrityunjay Banerjee and Award Winning Performer Shri Gautam Baul & team were present. The inaugural photo is shown in figure 22.

JIS University witnessed an array of talents when celebrated the International Mother Language Day at the JIS University auditorium on 22rd February 2018. Language is a medium of expression and our students and faculties participated wholeheartedly. Bengali, Urdu, Tamil, Hindi, Punjabi, Sanskrit as well as Maithili were beautifully presented in front of the august gathering of teachers and students.
Our Honorable Vice Chancellor Prof. B.C. Mal, our Dean Prof. T.K. Chatterjee encouraged our students with their creative insights. The figure 23 showed the event.

Figure 23 International Mother Language Day at the JIS University auditorium

Dr. Asoke Mitra, the former Scientist of P&G, USA delivered a seminar on "Product Development and innovation in Health Care" on 22.02.2018 at the Auditorium of the University at 3 PM. "Hard work, ethical standards, perseverance, continuous quest for research & innovation is the need of the hour" as opined by Dr. Ashok Mitra, Global Innovation Consultant for consumer health care product development and strategy. A deliberation captivating our young pharmaceutical scientists-to-be and faculty members by Dr. Mitra on global healthcare product innovation was indeed an enriching and exhilarating experience. Honorable Vice Chancellor Sir Prof. B.C. Mal greeted our guest of the day. Prof. T.K. Chatterjee, Dean Academic, gave the vote of thanks. Figure 24 showed the glimpse of the seminar.

Figure 24 Seminar on Product Development and innovation in Health Care

'Learning by Doing'

Experiential learning system is the best way to long term learning. The weekly visits of students from Juridical Sciences at different NGO courts need to observe the courtroom proceedings and cases. Prof. (Dr.) Souvik Chatterjee, Mr. Amit Ghosh with beloved students of the Department were shown in figure 25.
Weekly visits of students from Juridical Sciences at different NGO s courts

'Value Education is a continuous learning through our right thoughts and actions'. Department of Management Studies of JIS University started its Value Education with the life learning of Our Beloved Babuji. The inaugural session witnessed the prayer offerings by little children from Khalsa School followed by encouraging words from our Hon'ble Vice Chancellor Prof. B.C. Mal. The session was taken by Prof. Madan from the Centre of Spiritual Studies. Figure 26 showed the program.

Figure 26 Value Education with the life learning

Eminent educationist Dr. Shanghamitra Ghosh Gayen sharing her valuable thoughts and ideas on 'Psychological tests and its importance 'to the students of B.Ed at JIS University auditorium. The following picture Figure 27 displayed the program.
On the occasion of Inauguration of the new Bioscience club - 'J.C.Bose Club', an initiative by the students, under the mentorship of their faculties, a seminar on "Recent Developments in Modern Biosciences", was organised by the Department of Biotechnology at JIS university auditorium on 6th February 2018. Prof. Krishanu Chakraborti, Department of Biochemistry, Calcutta University and C.S. Pradeep Kumar, Founder & CEO, SYMBIO GREENTECH Pvt.Ltd, graced the occasion. Our Honourable Vice Chancellor Prof. B.C.Mal, Dean Academic Prof. T.K.Chatterjee along with our guest speakers spoke on the different developments of Biosciences. They also encouraged our students and faculties on the opening of the J.C. Bose Bioscience Club. Figure 28 showed the Inaugural program.
On 2nd February 2018 at the international Punjabi Conference being held at Shri Guru Tegh Bahadur Khalsa College under Delhi University, Sardar Taranjit Singh, MD JIS Group and Chancellor of JIS University was awarded and felicitated for his contribution and social welfare by Dr Manmohan Singh, former PM of India. It is shown in figure 29.

Figure 29 International Punjabi Conference

Professor Dr. Souvik Chatterjee, HOD, Juridical Sciences, enlightening our students on 'Determination of Yardsticks for Abuse of Dominance in India' at JISU Auditorium. Figure 30 showed Dr. Chatterjee delivered lecture on the topic.

Figure 30 Dr. Souvik Chatterjee delivered lecture on 'Determination of Yardsticks for Abuse of Dominance in India' at JISU Auditorium
Saraswati pujo at JIS University campus was witnessed the whole hearted participation of the students both during the puja and the following cultural program they organized and perform. Figure 31 showed the Sarasati Pratima at JIS University.

![Figure 31 Sarasati Pratima at JIS University](image)

National Youth Day celebration on the occasion of the 156th birthday of Swami Vivekananda was graced by the presence of Swami Kamalasthananda, Prinicipal, Swami Vivekananda Centenary College, Rahora, Professor T.S.Madan, Spiritual leader, our Honourable Vice Chancellor Prof. B.C.Mal, Dean, Prof. T.K.Chatterjee inspired our students and faculties through the teachings and philosophies of Swami Vivekananda. Figure 32 showed the Inaugural program.

![Figure 32 National Youth Day celebration](image)

JIS University is proud to partner with National Academic Depository (NAD), a Ministry of Human Resource Development (Govt. Of India) Initiative in association with CDSL Ventures Limited. The Agreement between CVL & JIS University was signed by Mr. Moloy Biswas (Regional Manager, CDSL) and Prof. B. C. Mal, Honorable Vice Chancellor of JIS University in presence of the Academic Council members, Director (Affairs), General Manager JIS and the Head of the Departments of the university. The photo of the agreement is shown in figure 33.
JIS University organized a one day workshop on research methodology for the faculties and research scholars of JIS Group by Dr. Shefalika Ghosh Samaddar and Dr. Arun Samaddar. The program is shown in figure 34.
On 24th November 2017, JIS University hosted its Skill Exposition (Autumn) 'SKILLX 2017' where the young and talented students showcased their innovation and creativity through 160 models & ideas, displayed across the campus ranging from Aerodynamics to Robotic Arms, Artificial Intelligence to Knowledge Management, Industrial Biotechnology to Waste Management, Sewage treatment to Drug Design, Curcumin to Solar Cell, Home automation to electronic circuit application, new product development, GST, Legal aids to business ideas. The attraction for the day was an exhibition of AERO-MODELLING & DRONE. Figure 35 showed photo of the program.

![Figure 35 showed 'SKILLX 2017'](image)

On the Occasion of 56th National Pharmacy Week, a road rally is being organised today 23rd November by the Department of Pharmaceutical Technology. Based on this year’s theme 'Know Your Medicine--Ask Your Pharmacist', a program of Sensitisation and awareness creation on Medicines and Lifesaving drugs among the local residents of Agarpara, Kamarhati and Panihati area. This was followed by a quiz competition in the department. Figure 36 showed the program at a glance.

![Figure 36 Program on 'Know Your Medicine--Ask Your Pharmacist'](image)

JIS University is proud to be the venue partner for "Miss India Khadi: State Finale - West Bengal 2017" by Khadi India on 22nd November 2017 at the JIS University campus. Ms. Sutirtha Ghosh was crowned as the Miss India Khadi - West Bengal State, 1st Runner Up - Ms. Eshita Mukherjee and 2nd Runner Up - Ms. Sutapa Das. The photo of the program is shown in figure 38.

![Figure 37 Program on 'Know Your Medicine--Ask Your Pharmacist'](image)

![Figure 38 Program on 'Miss India Khadi: State Finale - West Bengal 2017'](image)
On behalf of Spiritual Study Centre of JIS University in association with National Service Scheme (NSS), Guru Nanak Prakash Utsav – and enlightenment on “Spirituality through serving mankind: Health, Education & Childcare” held on 3rd November, 2017 at Auditorium of JIS University.

Dr Souvik Chatterji, Head of the School of Juridical Science, along with students of the School visited District and Sessions Court, Barasat, 13th February, 2018. The photo is shown in figure 39.

Dr. Souvik Chatterji delivered law seminar on ‘Importance of determination of relevant market in anti-trust cases’ on 18th January, 2018 at JIS University Auditorium.
Law Seminar was organized by the School of Juridical Science on ‘Independence of sectoral regulators’ on 13th March 2018 at JIS University Auditorium. Dr Souvik Chatterji Associate Professor and HOD, Dept. of Juridical Sciences, JIS University, on a topic ‘Independence of Airport Economic Regulatory Authority’. Dr Debaprasad Sarkar (HOD, Dept. of Economics, Barackpur Rashtraguru Surendra College) spoke on a topic ‘Independence of Health Sector’. Dr Pijush Sarkar (Advocate, Calcutta High Court) discussed on a topic ‘Independence of Ports Sector’. Some of important moments are shown in figure 40.

Figure 40 Law Seminar

Barasat District and Sessions Court visit on 14th March including a visit to NGO working on rights of old citizens. The Courts that were visited included Sessions Court CJM Court, Judicial Magistrate’s Court, and Civil Court Senior Division. The visit was organized by Dr. Souvik Chatterji of the School of Juridical Science. Some photographs are shown in figure 41.

Figure 41 Barasat District and Sessions Court visit on 14th March
On 12th February, Tuesday 26 students from JIS University went for Barasat District and Sessions Court Visit. They observed the proceedings of Court of District Judge, Chief Judicial Magistrate and Additional Chief Judicial Magistrate. The visit was organized by Dr. Souvik Chatterjii of the School of Juridical Science. Some photographs are shown in figure 42.

Figure 42 Barasat District and Sessions Court Visit.

The BBALLB and LLB students had interaction with the Registrar of Barasat Court who explained him the jurisdictions of different courts. The types of cases heard included matrimonial cases including Divorce by mutual consent cases POCSO cases, criminal cases like theft, extortion, rape, molestation, grievous hurt cases. The program held on 3rd April 2018.

**Presence of Foreign Visitors in the Workshop Organized by JIS University**

Workshop of Professor Joshua Alter and Professor Sarah Kelly in JIS University was held from 19th -23rd February, 2018. Areas covered by them are:

- Scope of LLM and Exchange
- Law Programs in St John’s University
- New York, USA.
- Lectures given by Prof Kelly
- And Prof Alter included
- Introduction to US
- Legal System
- Constitution in USA.
- Socratic method of
- Teaching was used.
- At the end facts situations were
- Given where students
- Responded to disputes.

The photographs were taken during the workshop were shown in figure 43.
Figure 43 Workshop of Professor Joshua Alter and Professor Sarah Kelly in JIS University

**Condolence**

**Stephen Hawking**

JIS University expressed its deepest condolences not only to the famed theoretical physicist's family but the entire world today on the passing away of Stephen Hawking. Professor Stephen Hawking (1942-2018), the brightest star in the firmament of science, whose insights shaped modern cosmology and inspired global audiences in the millions passed away on 'Pi Day' today at the age of 76. The program was held on 14th March 2018 at the JIS University Auditorium. The figure 20 shows Professor Stephen Hawking.

Figure 20 Professor Stephen Hawking
Bapuji

Sardar Jodh Singh was born to a Sikh family in 1920 in a remote village of Montgomery district, former Punjab Province in Pakistan who settled in India during Indo-Pak partition.

Today, his endeavour and hard worn has born fruits and turned JIS Group Educational Conglomerate into what it is now - the largest premier educational service provider of Eastern India with 26 institutes with over 126 program, and over 35000 students enrolled into these diverse programs.

He will be remembered for his energetic innovative ideas and childlike enthusiasm which saw him make successful forays and ventures into diverse sectors like transport, iron and steel, real estate, telecom infrastructure and education, the last one was his pioneering role in helping in the path of removing illiteracy by the JIS Group Educational Initiatives.

Sardar Jodh Singh - Chairman & Founder JIS Group passed away in Kolkata on 31 January 2018 at the age of 98.
The ANTIM ARDAAS (Last Prayer) of our beloved Sardar Jodh Singh, the Founder & Chairman of JIS Group was held on 31 January 2018 from 11 am to 1 pm at Guru Nanak Dental Campus.

"Even though our dear Babuji has departed for his heavenly abode, he will always be there in our hearts and minds."

The JIS University family got together to pay their respects & offer tribute to our beloved Chairman - Sardar Jodh Singh Ji (Babuji). Few Glimpses are:
The members of JIS UNIVERSITY assembled together on 29th January at JIS University auditorium to pay tribute to our founder Chairman, a visionary and a Man of Large Heart, Sardar Jodh Singh ji (Babuji), who left all of us for heavenly abode on 25th January 2018.

A two minute silence was observed at the onset.

Hon'ble Vice Chancellor, Director (Affairs), Adviser to Hon'ble Chancellor, Dean, all faculty & staff members along with students paid homage and shared their memories of our beloved 'Babuji' with the members present in the auditorium.

The condolence meeting was followed by the screening of the film based on Babuji, 'Milkman to Millionaire' to let the students and members of our University know, about the legend he was and how he founded the JIS Educational Initiatives.

Babuji will remain in our hearts forever. May his divine soul rest in peace.

JIS UNIVERSITY FAMILY