

# STUDENT RESOURCE BOOK

(2023-24)

Part II

**Nilkamal School of Mathematics,**  
**Applied Statistics & Analytics**

**Bengaluru**



**Dr. Narayani Ramachandran**  
Director, NMIMS Bangalore

## Message from Dean

Welcome to the School of Mathematics, Applied Statistics and Analytics. Emerging out of the recent restructuring exercise initiated by the NMIMS University, the School is perhaps the youngest among the Schools in the University. I am sure, our journey is going to be exciting and enriching for the students and the faculty. We are hoping to experience an invigorating renewal of intellectual bondage between Mathematics, one of the oldest branch of Science, and Statistics, one of the youngest twentieth century discipline of Science.

The new age scientific and technological innovations have brought Mathematical Sciences to be at the center stage. Mathematical Sciences, which solve problems on the basis of logic and scientific approach, are highly required in our modern society which is increasingly becoming more and more complex and globalized. Interestingly, both Mathematics and Statistics are much sought after disciplines of study and well positioned to be useful in solving many of the theoretical problems that have end user applications in society. In the modern days the potent combination of Mathematics and Statistics is seen as the driver of philosophy, that is "knowledge creation, development, and transmission for the good of society". There is no second opinion that education is an investment, and the School wants to make sure your investment is rewarded.

Our approach to education, from our rigorous but hands-on academic curriculum to the unique opportunities that we provide to our students, allows you to put classroom instructions to work in the real world. This approach is geared towards ensuring you earn the degree and skills that will make you an asset to future employers and prepares you for a rewarding career.

The SOMASA provides access to many valuable resources. Our teaching faculties are accomplished mathematicians, statisticians and engineers in the field, and many bring a wealth of industry experience to the classroom. The students will have plenty of time to get to know the professors and seek their advice both inside and out of the class. We have in place student mentoring system which ensures sustainable personal interest in each individual's success.

The achievement indicators of the programmes offered by SOMASA are on the rise. These include increases in undergraduate enrollment, accomplishments in research, and recognition of SOMASA's excellence through student scholarship awards and placements. The departments within the school bring class instructions to life through research treatise course, capstone projects and industry internships.

In the current decade, Computational Mathematics, Data Science, Model based Analytics and Artificial Intelligence have been receiving a phenomenal traction both in academia and the industry. There is a huge potential in terms of formal career opportunities in these disciplines. The industries are keen on recruiting under-graduates and post-graduates with qualifications in Applied Mathematics and Statistics as the core members of Data Science and Business Analytics Team. All our programmes are in line with the NMIMS' (Deemed to be University) priority strategy to design and deliver programmes that cater to market requirements. Strategically, the University aims to play a special role in enhancing the employability of young Indians and helping the economy acquire a competitive edge.

I look forward to supporting our aspiring students, and call upon them to continue to learn, discover, and contribute to solving the most challenging problems. I encourage you to explore your creative thinking during your journey with us.

Dear Esteemed Students,

A hearty welcome to NMIMS Bangalore, an institution known for its dynamism and excellence in education. As you step into our vibrant campus, nestled across locations - the main campus at Bannerghatta, you embark on a journey that promises to be transformative and enriching. It is a privilege to have you join us, becoming an integral part of our legacy.

At NMIMS Bangalore, we take immense pride in our distinguished programs. This longevity also provides us with a strong network of alumni who are excited to engage with and guide new students, fostering a culture of mentorship and collaboration.

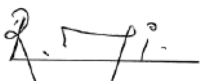
Our commitment to your holistic development is unwavering. Throughout your tenure, we strive to offer an unforgettable blend of academic rigor and extra-curricular engagement. The dedicated faculty ensure the academic aspect is robust, while our diverse Clubs and Committees open doors to a wide range of extracurricular pursuits. These avenues for exploration are designed to mold well-rounded individuals who are not only proficient in their chosen fields but are also equipped with the skills and perspectives necessary to thrive in a dynamic world.

As testament to our dedication, the excellence of our students shines through. The growth trajectory of NMIMS Bangalore is steadfast. We are committed to expanding our horizons, creating new opportunities, and enhancing our academic offerings. Our focus on education and overall development remains paramount, ensuring that every student undergoes a transformative journey during their time with us. As you navigate the halls of NMIMS Bangalore, you'll find an environment that nurtures creativity, critical thinking, and ethical leadership, preparing you to excel in your future endeavors.

Your presence here is a testament to your aspirations and dedication. We encourage you to embrace this chapter fully, immerse yourself in the plethora of opportunities that await, and contribute wholeheartedly to the NMIMS legacy. Together, we shall continue to elevate Brand NMIMS Bangalore and shape a brighter future.

Here's to a rewarding and enriching journey ahead!

Warm regards,



Director, NMIMS Bangalore

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## **1. Academic /General Inputs, Rules Policies**

### **1.1 General & Academic Guidelines - Attendance Norms & School Policies:**

In continuation to point number 3.2 of University Guidelines, please note the following additional guidelines:

**1.1.1** The attendance reports are uploaded on Student Portal twice in a week. Discrepancy (if any) to be informed by the student to the course coordinator concerned within 3 working days from the date when report has been uploaded. No changes will be permitted once attendance reports are finalized.

**1.1.2** For ALL absence, prior intimation is to be given to the Course Coordinator concerned. In emergent situations, intimation must be given to Course Coordinator on phone/ email within 24 hours of the absence. Any leave without written intimation will be treated as unauthorized leave and will be reflected in the records as such.

**1.1.3** Students must refrain from approaching the faculty members for attendance related issues and exemptions. They must submit an application to the course coordinator concerned for necessary approvals. Individual faculty members are not allowed to give exemptions.

**1.1.4** Classes are expected to begin on time. Late coming is not permitted. Faculties have the authority to close the doors of the classroom and debar latecomers from entering the classroom. They have also been advised to deal with students who habitually come late

**1.1.5** Students are required to be present for all events of the University and School of Science, including the Convocation, Orientation Ceremony, Sports Day, Republic Day, Independence Day, guest lectures, compulsory workshops, Journal Club, and other events as intimated on the notice board. Record of attendance will be kept for disciplinary action wherever deemed necessary. The University reserves the right to declare compulsory attendance for any event on or off the campus. Absenteeism on events for which attendance is compulsory, will be taken seriously and will be communicated / displayed on the notice board from time to time and / or remark on the transcript or any other decision by the management.

**1.1.6** Students are not entitled automatically to make up tests / quizzes / viva's and any other form of evaluation even when prior authorization has been obtained for absence from the class. In case of group discussion / presentations, students will not be allowed any marks for absence during the presentations / discussion even if the student has been granted authorized leave during the same.

**1.1.7** Absence from examination / re-examination for medical or any other reason shall be treated as failure.

**1.1.8** As all courses conducted by the School of Science are full time courses, students will not be granted leave and / or any other exemptions to pursue any additional course of studies beyond that for which they are currently enrolled at the School of Science.

**1.1.9** Students are required to be in Mumbai city on all days of the trimester/ semester. If they are leaving the city on personal or institutional work, they are required to obtain prior permission from the Dean. This applies even to those students who are representing the University for social, cultural, and co-curricular events.

**1.1.10** Students are required to honour deadlines for submissions of projects, reports, assignments, forms and any other submission to the University or the faculty concerned. Do not approach faculty members and others in the University to change or extend deadlines

**1.2 Program Validity / Re-Admission rules:**

In continuation to the re-admission rules explained in Part I of this SRB, the maximum duration permissible for completion of the programme (in years) are mentioned in the table below:

<b>Sr. No.</b>	<b>Name of the programme</b>	<b>Duration of the programme (in years)</b>	<b>Maximum duration permissible for completion the programme (in years)</b>
1	B Sc. (Data Science)	3	5

### 1.3 Discipline Norms and Penalty:

In continuation to the Discipline Norms and Penalty explained in Part I of this SRB, the names of committee members of the school are as follows:

SI No.	Name	Designation	Email ID	Contact No.
<b>Anti-Ragging Committee:</b>				
1	Dr. Deepak Sharma	Chairperson	<a href="mailto:Deepak.Sharma@nmims.edu">Deepak.Sharma@nmims.edu</a>	8826955643
2	Dr. A. Aparna	Member	<a href="mailto:Aparna.A@nmims.edu">Aparna.A@nmims.edu</a>	9449010723
3	Dr. Awantika Rajauria	Member	<a href="mailto:awantika.rajauria@nmims.edu">awantika.rajauria@nmims.edu</a>	9251009799
4	Prof. Sweta Sethia	Member	<a href="mailto:Sweta.Sethia@nmims.edu">Sweta.Sethia@nmims.edu</a>	9538015474
5	Prof. Gavin Dsouza	Member	<a href="mailto:gavin.dSouza@nmims.edu">gavin.dSouza@nmims.edu</a>	9623498669
6	Dr. Prerona Baruah	Member	<a href="mailto:prerona.baruah@nmims.edu">prerona.baruah@nmims.edu</a>	7663046049
7	Dr. Kush Karla	Member Secretary	<a href="mailto:kush.karla@nmims.edu">kush.karla@nmims.edu</a>	9711128466
8	Ms. Smita Ram	NGO Member	<a href="mailto:smita@rangde.in">smita@rangde.in</a>	9686114608
9	Police Station In charge	Sub Inspector	<a href="mailto:Sp-bangalorerural@kar.gov.in">Sp-bangalorerural@kar.gov.in</a>	080-27828595
10	Ms. Mahima Guwalani	Student Council member	<a href="mailto:mahima.guwalani366@nmims.edu.in">mahima.guwalani366@nmims.edu.in</a>	9893783723
11	Ms. Tripti Singh	Parent	<a href="mailto:triptidpjaipur@gmail.com">triptidpjaipur@gmail.com</a>	9784624000
<b>Disciplinary Committee:</b>				
1	Prof. Dileep Menon	Chairperson	<a href="mailto:dileep.menon@nmims.edu">dileep.menon@nmims.edu</a>	9447661998
2	Prof. Tanaya Majumder	Member	<a href="mailto:Tanaya.Majumder@nmims.edu">Tanaya.Majumder@nmims.edu</a>	8981329564
3	Prof. Anand Prakash	Member	<a href="mailto:anand.prakash@nmims.edu">anand.prakash@nmims.edu</a>	8076832949
4	Ms. Kalashri. K. N	Member	<a href="mailto:kalashri.kn@nmims.edu">kalashri.kn@nmims.edu</a>	8792838912
5	Mr. Vishnu Bhat	Member	<a href="mailto:Vishnu.Bhat@nmims.edu">Vishnu.Bhat@nmims.edu</a>	9449984692
6	Mr. Chandramohan Shahabad	Member Secretary	<a href="mailto:chandramohan.shahabad@nmims.edu">chandramohan.shahabad@nmims.edu</a>	9967345501
<b>Woman Grievance Redressal / Sexual Harassment Committee</b>				
1	Dr. Tanmeet Sahiwal	Chairperson	<a href="mailto:tanmeet.sahiwal@nmims.edu">tanmeet.sahiwal@nmims.edu</a>	9780581218
2	Dr. Mallika Srivastava	Member	<a href="mailto:Mallika.Srivastava@nmims.edu">Mallika.Srivastava@nmims.edu</a>	9561122221
3	Prof. Ramprasadh Goarty	Member	<a href="mailto:ramprasadh.goarty@nmims.edu">ramprasadh.goarty@nmims.edu</a>	9885300874
4	Dr. Sreeleakha. P	Member	<a href="mailto:Sreeleakha.P@nmims.edu">Sreeleakha.P@nmims.edu</a>	9880302813
5	Dr. Priyam Ghosh	Member	<a href="mailto:priyam.ghosh@nmims.edu">priyam.ghosh@nmims.edu</a>	8100760744
6	Prof. Revathy Muniyasamy	Member	<a href="mailto:muniyasamy.revathy@nmims.edu">muniyasamy.revathy@nmims.edu</a>	9500990447
7	Prof. Anwesha Chattopadhyay	Member	<a href="mailto:anwesha.chattopadhyay@nmims.edu">anwesha.chattopadhyay@nmims.edu</a>	9986727405
8	Dr. Samraggi Chakraborty	Member Secretary	<a href="mailto:samraggi.chakraborty@nmims.edu">samraggi.chakraborty@nmims.edu</a>	7619182637
9	Women member from a NGO			
<b>Student Grievance Redressal Committee (Institutional/Departmental/Collegiate)</b>				
1	Dr. Mallika Srivastava	Chairperson	<a href="mailto:Mallika.Srivastava@nmims.edu">Mallika.Srivastava@nmims.edu</a>	9561122221
2	Dr. Barnabas. N	Member	<a href="mailto:Barnabas.N@nmims.edu">Barnabas.N@nmims.edu</a>	9481475606
3	Prof. Anand Prakash	Member	<a href="mailto:anand.prakash@nmims.edu">anand.prakash@nmims.edu</a>	8076832949
4	Dr. Sindhu Palonnath mana	Member	<a href="mailto:sindhu.palonnathmana@nmims.edu">sindhu.palonnathmana@nmims.edu</a>	9892828504
5	Prof. Sweta Sethia	Member	<a href="mailto:Sweta.Sethia@nmims.edu">Sweta.Sethia@nmims.edu</a>	9538015474
6	Dr. Tanaya Majumder	Member	<a href="mailto:Tanaya.Majumder@nmims.edu">Tanaya.Majumder@nmims.edu</a>	8981329564
7	Ms. Kalashri. K. N	Member	<a href="mailto:kalashri.kn@nmims.edu">kalashri.kn@nmims.edu</a>	8792838912
8	Prof. Ameya Sapre	Member Secretary	<a href="mailto:ameya.s@nmims.edu">ameya.s@nmims.edu</a>	9826189896

## **2. Placement Guidelines:**

NMIMS is a premier University of the country and the B-school is in existence for over four decades. Over the years it has earned recognition from industry & professional associations, corporates, peer group institutions and accreditation agencies. All these laurels and recognitions would have been incomplete without the support of the corporate world. Our alumni occupy senior positions in leading companies across sectors.

NMIMS is also a great place to recruit potential young managers and business leaders. Leading companies across sectors consider our students for recruitments/ internships. As we have cordial relations with the corporate world, many companies have supported us even during tough times. We would like to continue this mutually symbiotic relationship. Hence, it is expected that students understand this sentiment and behave responsibly at all times. Any untoward incident will jeopardize this association and have serious repercussions for placements and for the future.

The corporate world expects students to display high standards of professional knowledge, capability and excellence. Recruiters also look for candidates who are clear about their long-term plans, the sector they want to be and profile they want to undertake.

Placement assistance is offered to students of various programs across Schools & Campuses. The Placement Office facilitates the process of placements – internship & recruitment by creating an interface between recruiters and students. Efforts are made to market the programs with their merits with an endeavour to get companies to offer internships/recruit students. The selection process specified by the company is followed. The PlaceCom - Placement Committee of students is actively involved in the placement activities – contacting/visiting companies located in metros & major cities for placement presentations and also coordinate various activities during the placement processes.

The Placement Office devises placement guidelines that are in the larger interest of the School and students, in consultation with students and faculty.

Students are expected to maintain decorum and abide by the guidelines during placement processes. In the event of non-conformance to the placement guidelines, the School reserves the right to initiate corrective action.

The COVID 19 pandemic has had far-reaching consequences leading to an altogether new world of working for all leading to WFH, virtual internships and virtual selection process.

The Placement process typically involves –

- Batch Preparation
- Pre Placement Talks
- Internships/Projects
- Final Placements

### **2.1 Batch Preparation:**

The Comprehensive Batch Preparation Program is to enhance the suitability of candidates and orient them to industry practices and expectations.



- a. Interactive sessions with alumni/industry experts in various profiles that help students to gain clarity on role/fit, understanding expectations of the company, future prospects - career evolution, right approach for cracking interviews, listen to first-hand experience & get a feel of life in a particular profile etc.
- b. Interaction with seniors who have undergone internships in companies.
- c. Assigning seniors or alumni as mentors to guide students.
- d. Mock interviews with alumni/corporates to get a direct feedback from people in relevant industries.
- e. Guest talks and workshops on various topics from corporates.
- f. Resume building as per guidelines
- g. Soft skills training etc.

2.1.1 Prior to the commencement of the selection process it is expected that students should be having a fair idea

about their interest, sector and specialization or at least have some long term vision of where they want to be and should direct their efforts accordingly. A bit of clarity will help students land a good internship/job.

2.1.2 Hence students should do a thorough research about the company, the business, the sector, other players in the sector, the financials etc. and be prepared with a background and fact file prior to the process. Also some additional information – the number of interns/recruits in the past, whether the company has a PPO policy, the roles offered, the experience of seniors who interned with the company etc. will be of help.

2.1.3 The Placement Office also involves companies in a number of Campus Engagement activities – contests, projects, workshops, seminars, guest talks etc. that would benefit a larger number of students and also help in promoting the excellent quality of the batch.

2.1.4 Based on the guidelines, students will have to prepare their resume that would encapsulate info about academics, work experience, internship, co-curricular activities, extracurricular activities, projects, awards, achievements, hobbies etc.

## 2.2 **Pre-Placement Talk – PPT**

PPT's are a medium wherein the company officials disseminate information regarding the company, the profile, the compensation etc. and clarify the queries of students. The company officials invest time and effort to disseminate info and the interactive session will make them feel visiting our campus was worth it. Hence students are requested to participate and ask relevant questions.

## 2.3 **Internships/Projects**

2.3.2 The Placement Office makes all efforts to reach out for internships across varied sectors, companies and profiles. Based on ones' interests and capabilities one should seek internships. Choosing the correct company for internships and performing up to the mark is of utmost importance.

2.3.3 The Internships are not only a window to the corporate world but also a relationship-building tool for NMIMS. It allows the companies to have a look at the talent at NMIMS, thereby strengthening Final Placements.

2.3.4 Internships are an integral part of the curriculum for securing the degree. It is a great learning platform for our students and goes a long way in shaping the learning obtained in the classroom. This experience is of immense use to students to enable them to acclimatize themselves to the intricacies of the corporate world.

- 2.3.5 The project is expected to build on the theoretical learning with practical experience and help students to identify the gaps in their learning, which they can attempt to fill in. They could also discover areas of interest and future career options.
- 2.3.6 Interactions during the internships both with other interns as well as employees help students to understand the expectations/needs of the organisation, the sector in general, to identify the gaps in their learning and in orienting oneself towards the sector and developing the required skill sets to emerge as the most suitable candidate.
- 2.3.7 Internships also hold a special significance as it is an apt mechanism for companies to spot bright talent early. Many companies have structured internship process which is used as a 'testing ground' to gain a direct understanding of the skill and ability of students leading to declaration of PPO's/PPI's. NMIMS too encourages candidates to work towards such offers that are based on internship performance.
- 2.3.8 Pre Placement Offer (PPO) is an Offer by the company to the intern acknowledging the excellent work done during the internship. Pre Placement Interview (PPI) is an opportunity by the company for the intern to be directly selected for the interview for final placements. Thus, the students should be careful in applying to the companies of their choice and should put in all efforts to convert the internship into an Offer. Thus, the seriousness of this cannot be overstated.
- 2.3.9 While feedback from the company is sought, the internship is also evaluated by School that could involve faculty guide monitoring the performance; periodic report submissions, evaluations, Viva Voce etc.

## **2.4 Final Placements**

- 2.4.2 Leading companies across sectors aspire to recruit students of NMIMS. Each company has its own set of characteristics or qualities that they look for in a candidate. Hence, the company devises the eligibility criteria and selection process accordingly.
- 2.4.3 The process of selection starts with inviting applications based on the eligibility, profile, project, stipend/compensation details shared by the company. The applications of applicants are then sent to companies. Students are required to check their emails/Placement Portal/Student Portal, etc. regularly for information updates.
- 2.4.4 Every effort will be made to facilitate the placement process. However, it is the effort of the student that gets him/her selected for the job. Not getting selected for internships or during final placements in the first few companies should not lead to panic. Students are advised not to switch profiles in anxiety or haste.
- 2.4.5 Companies could have one or multiple rounds for selection – case analysis, group discussion, group exercises, interviews etc. Reasons like location, family issues etc. should not be constraints to students. They are expected to be mobile and have the capability to adjust and adapt and respond to emergent situations successfully.
- 2.4.6 Students who wish to drop out of the placement process are expected to formally notify the Placement Office vide the 'Opted Out Form' mentioning the reason, which could be higher studies, entrepreneurship, family business, seeking placements on their own giving with the names of such companies and details. The reason being, to iron out any hitches that may crop up later as the Placement Office approaches many companies and would like to continue the cordial relationship with them.

Each of the Schools will be sharing to the batch, guidelines related to Resume, PPT, Internships, PPO's/PPI's, Final Placements etc. and it is expected that students follow the same. The School reserves the right to change, modify the guidelines in the best interest of the batch. Students are free to approach the Placement Office for any queries or guidance.

### 3 Guidelines for International Student Exchange Program:

#### 3.1 Introduction

NMIMS Deemed-to-be-University has developed an extensive International Students Exchange Program in order to provide a cross cultural exposure and a global perspective to the students apart from classroom teaching. This is managed by Department of International Linkages of the University. The Exchange Program has become increasingly popular with the students and every year students get a chance to spend Semester/Trimesters at a partner Institute. With the dedicated efforts of the International Linkages department, efforts are ongoing to have larger number of students to avail of this unique opportunity in every school. Students at NMIMS also benefit from interacting with overseas students who visit us as part of NMIMS Inbound exchange program and International Immersions.

#### 3.2 Preamble

In a world that is increasingly interdependent, it is imperative for the NMIMS Deemed-to-be-University to have an internationalization agenda. This involves creation of a multi ethnic environment in our programs on our campus. This can happen only when students from different countries and communities join NMIMS programs.

This policy on internationalization seeks to clarify the philosophy behind the NMIMS Deemed-to-be-University's Internationalization program and sets out the eligibility of students to apply for an international exchange program. It also sets out the selection criteria and guidelines for assessing applications and the expectations from the students going for the exchange program.

This policy also lays out the facilities for international students in our programs and also the expectations from them. We expect our foreign students to conduct themselves at par with other Indian students.

To aggressively pursue the internalization agenda, NMIMS has signed MOUs with leading Universities. MOUs applicable for NMIMS schools as given below:

#### 1. The University Level:

- University of New South Wales, Australia
- Clark University, USA
- University of California, Berkeley, USA – Summer Sessions
- University of Texas at Dallas, USA
- Illinois Institute of Technology, USA
- The University of Missouri - Kansas City, USA
- Florida International University, USA
- Stony Brook University, USA
- Columbia University School of Professional Studies, USA
- Kings College London, UK
- University of Bristol, UK
- University of Leeds, UK
- Abdullah Gul University, Kayseri, Turkey

- Virginia Tech. University, USA
- University of Memphis, USA
- University of Guelph, CANADA
- University of Essex, UK
- University of Western Australia, Australia
- University of Chester, UK
- University of Stirling, UK
- Warwick Manufacturing Group, University of Warwick
- The University of Zaragoza, SPAIN
- Daffodil International University, BANGLADESH
- University of Liberal Arts, BANGLADESH
- Varna University of Management, BANGLADESH
- Cranfield University, UK
- The University of Danang, VIETNAM
- Monash University, AUSTRALIA
- University at Binghamton, State University of New York, USA

2. **School of Business Management (SBM):**

- HEC Lausanne, Switzerland
- The Grenoble Ecole de Management, France
- KEDGE Business School, France
- NEOMA Business School, France
- HLL Leipzig School of Management, Germany
- IESEG School of Management, Lille, Paris, France
- University of Erlangen-Nurnberg, Germany
- Europa Universitat Flensburg- EUF, Germany
- ESSCA Ecole De Management, France
- EDHEC Business School, France
- Purdue University, USA
- University of Texas at Dallas, USA
- Florida International University, USA
- University of South Florida, USA
- Excecia France
- Arizona State University – Thunderbird School of Global Management, USA

3. **School of Technology Management & Engineering (MPSTME):**

- Virginia Tech, USA
- Stevens Institute of Technology, USA
- University of New South Wales, Australia
- Western Sydney University, Australia
- University of Canberra, Australia
- University at Buffalo, State University of New York
- Hochschule Karlsruhe University of Applied Sciences
- HTWG Konstanz – University of Applied Sciences, GERMANY

**4. School of Architecture (BSSA):**

- University of Nebrija, Spain

**5. School of Commerce (ASMSOC)**

- University of Bristol UK
- University of South Australia, Australia
- University of Wollongong – Australia
- University of California Riverside, USA
- State University of New York at Albany, USA
- Clark University, USA
- University of Dallas – USA
- HEC Lausanne, Switzerland
- Excelia, France
- The University of Queensland, Australia
- The University of Leeds, UK
- The University of Western Australia, AUSTRALIA

**6. School of Economics (SAMSOE)**

- University of California Riverside, USA
- Clark University, USA
- University of Wollongong - Australia
- Dalhousie University – Canada
- University of Bristol – UK
- University of South Australia, Australia
- HEC Lausanne, Switzerland
- The University of Queensland, Australia
- The University of Leeds, UK
- Virginia Tech, USA

**7. School of Branding and Advertising**

- The University of Queensland, Australia
- University of California Riverside, USA
- University of South Australia, Australia

**8. School of Science (SDSOS)**

- The University of Leeds

**3.3 Eligibility**

Students are selected by respective Deans of Schools on a competitive basis that reflects the academic standing, motivation, seriousness of purpose, communication skills, social maturity and adaptability. International students coming to our campus are recommended by respective partner's university on merit basis and language proficiency in English.

All full time program students are eligible to apply for the exchange program if they have:

3.3.1 Completed the eligibility year of program as defined by respective Deans/Directors of school

- 3.3.2 Have a minimum CGPA of 2.25 and above as defined by respective Deans/ Directors of School.
- 3.3.3 Eligibility of International students coming to our campus recommended by the partner university should satisfy the eligibility criteria as per the memorandum of understanding signed between the Universities/ Schools.

### **3.4 Selection Criteria and Conditions**

- 3.4.1 As defined by respective Deans/Directors of Schools
- 3.4.2 Defined by MoU between Partner University and NMIMS for incoming students

### **3.5 Cost and Expenses**

Costs and expenses for participating in the exchange program are governed by the MOU signed by NMIMS and the host School.

In addition of the above, all students are required to pay for their:

- 3.5.1 Accommodation and daily living expenses including study materials
- 3.5.2 Travel Expenses
- 3.5.3 Passport and visa costs
- 3.5.4 Insurance cover
- 3.5.5 Any other incidental costs

### **3.6 Application procedure for students and Expectations from students**

- 3.6.1 Students have to apply in specified application form as defined by respective Deans/ Directors of schools. Candidates with completed and accurate application will be interviewed by the International Linkages office. Successful candidates will then be nominated to the respective partner universities following which they have to complete the online application as instructions received from partner university via email.
- 3.6.2 The list of courses that a student intends to take up in the partner institute should be clearly mentioned. For those who wish to apply in more than one institute, the lists of the courses in each of these institutes should be mentioned.
- 3.6.3 Upon joining the partner institute, the courses the students intends to take up should be finalized and communicated for approval to the NMIMS School authorities
- 3.6.4 Students need to ensure that they do not get any fail grade in the courses undertaken in the partner institute because many partnering institutes do not conduct re-examination.
- 3.6.5 Other criteria as defined by Deans/Directors of the Schools.

### **3.7 Code of Conduct**

While abroad, the students are subjected to the rules and regulations of the host institution, the laws of the host country and the student code of conduct from NMIMS Deemed-to-be-University. Each student is an ambassador of NMIMS Deemed-to-be-University and should conduct in an appropriate manner at all times that is reflective of the code of conduct required by NMIMS and that of the overseas host institution.

### **3.8 Enclosures:**

Undertaking to be given by student of NMIMS Deemed-to-be University's student going on International Immersion.

**Note:** Schools to ensure that copy of Application Form compulsorily reaches Director- International Linkages department for records.

**4. Examination Guidelines (ICA / TEE, Passing Criteria, Grading system, method of calculation of CGPA, Re-Examination, exceptional cases – medical etc.)**

4.1 Examination weightages and credits

Break up for continuous evaluation of each course will be as under:

A student would undergo continuous assessment for each course/subject in all the semesters/trimesters. Various components of such continuous assessment would be as decided by the respective course/subject teacher/faculty and approved by Dean/Director of the school concerned.

<b>Component</b>	<b>Marks</b>
Internal Continuous Assessment (ICA)	50
Semester-end examination (University) (SEE)	50
	100

4.2 SEMESTER-END-EXAM PASSING CRITERIA FOR EACH COURSE:

**Semester End Examination (SEE):**

**A student must secure a minimum of 40% of the total maximum marks allotted to the Course / Subject in order to be declared as successful.**

**Aggregate Passing:**

To pass, in a particular course/Subject, in any of the Semester End examination or Semester End re- examination, a student must fulfil ALL of the following criteria:

- Secure a minimum of 40% marks in the Semester end examination of that subject.
- Secure a minimum of 40% aggregate marks out of the total marks (that is, internal continuous assessment plus assessment of the term end examination) allotted to the module/s.
- To pass in a particular subject in any of the semester end examination or semester end re-examination, student must secure a minimum of 40% marks of the total maximum marks of that subject, in the semester end examination.
- “F” Grade would be awarded, where marks obtained are less than 40% in aggregate or where the marks obtained in the semester end examination are less than 40% of the total maximum

marks of the respective course.

- Students who obtain marks between 40 and 49.99 would be awarded 'D' grade (low pass). Please refer 'Grading' scheme given below.
- A student cannot have more than 2 'D' grades during an academic year. A student having more than 2 'D' grades will not be promoted to the next academic year of the programme. These 'D' grades would be computed after re-examination.
- For subjects, which has only Internal Continuous Assessment component, passing will be at 40%.
- There is no provision for award of grace marks to any student.

#### **4.3 Non – fulfillment of Passing Criteria:**

A student, who has failed to fulfil the passing criteria as given above, will be required to appear for semester-end re-examination which will be conducted immediately after declaration of results of the said regular semester-end examination. The internal marks will be carried forward for the re-examination. A student has to submit an online re-examination form. Such students who fail to submit the form will not be allowed to appear for the re-examination. A student who has failed to fulfil the passing criteria of Semester I courses after re-examination, will be allowed to attend the classes and appear at the examination/ re-examination of Semester II (and soon).

Remedial classes would be organized by the School for all the students who fail to fulfil the passing criteria as mentioned above before the conduct of their examination. It is mandatory for such students to attend the remedial classes organized by the School. Student is expected to attend 100% of the remedial classes so held. A student may be denied permission to appear at the re-examination in case it is observed that student concerned did not fulfill the attendance criteria of the remedial classes.

In case, the student fails even in the re-examination, which is so held, he/ she will have the following options:

1. To seek readmission in the subsequent year for the entire academic year

**OR**

Appear for the Term end examination of the subject/subjects in which the student has got an D/F grade, in the subsequent year. In such a case, the ICA marks of the subject/subjects will be carried forward of the previous year in which the student had got an D/F grade. The student will be required to pay only the examination fees.

#### **4.4 Progression to the subsequent year of the programme:**

A student will be promoted to the subsequent year of the programme only when he/ she has no F grade and/ or not more than 2 D grades in the year after re-examination.

**Grading System:**

- The University follows a letter grading system leading to the award of a four-point Grade Point Average (GPA) for each term and Cumulative Grade Point Average (CGPA) for all the terms until



date.

- ‘Letter grades’ and corresponding ‘grade points’ are as under:

Grade	Points	Class interval of marks (%)	
A+	4	100	85
A	3.75	84.99	81
A-	3.5	80.99	77
B+	3.25	76.99	73
B	3	72.99	69
B-	2.75	68.99	65
C+	2.5	64.99	61
C	2.25	60.99	57
C-	2	56.99	50
D	1.5	49.99	40
F	0	39	0

Calculation of GPA (Grade Point Average):

Grade point Average for a term will be computed by dividing, the sum of product of grade point of each course/subjects and credit value assigned to each respective course by the sum of credits assigned to all the courses / subjects for the related term.

$$GPA = \frac{\sum_{i=1}^n (C_i G_i)}{\sum_{i=1}^n C_i}$$

Calculation of CGPA (Cumulative Grade Point Average):

Cumulative Grade Point Average up to and including a term will be computed by dividing the sum of

product of grade point of each course / subject and credit value assigned to each respective course by the sum of credits assigned to all the courses / subjects up to and including the related term till date.

$$CGPA = \frac{\sum_{i=1}^n (C_i G_i)}{\sum_{i=1}^n C_i}$$

Here:

C = Credit value assigned to a course

G = Grade point value assigned to a student for course / subject corresponding to the letter grade (refer table given) GPA=Grade point Average shall be calculated for individual term and referred to as Semester/ Trimester Grade Point Average. If a student has failed to fulfil passing standard under any head in any subject (i.e. ‘Semester / trimester End Examination’ and/ or ‘aggregate’), he/ she shall be deemed to have failed in that subject.

## General rules

- A student who remains absent from term/semester examination/s due to any reason in any subject shall be marked as 'AB' in the result/grade sheet/transcript for the subject/s in which he/she has remained absent. All such students will be allowed to appear at re-examination in the said subject. The said re-examination will be conducted immediately after the declaration of the respective term examination. A student who remains absent in the re-examination would not be able to avail any further re-examination chance.
- In order to receive the degree, the student will have to pass in all the examinations of all the years
- Grievance Redressal: In case a student is not satisfied with the result/grade received by him in a particular subject, he/she may follow the 'Grievance Redressal Procedure' in case he/ she desires.
- The fees for re-examinations and re-admission will be decided by the University from time to time.
- In case of any disputes/differences, decision of the University shall be final and binding on the students. If a student desires to institute any legal proceedings against the University, such legal proceedings shall be instituted only in court at Mumbai in whose jurisdiction the application is submitted by the student and not in any other court.
- Modification in criteria/rules: On the recommendation of the Board of Studies of the School of Mathematics, Applied Statistics & Analytics and the Board of Examinations, the Academic Council shall have the sole discretionary right to modify all or any of the above criteria at any time without prior notice.

These rules would be applicable to all the students who took admission/ re admission in and after the academic year 2022- 2023.

5. List of E resources subscribed by NMIMS

Sr. No.	Database	Sr. No.	Database	Sr. No.	Database
	<b>LIBRARY SOFTWARE</b>		<b>RESEARCH DATABASES</b>		<b>FINANCE LAB</b>
1.	Koha	17.	CMIE: Economic Outlook	32.	Bloomberg
	<b>GRAMMAR/PLAGIARISM CHECK SFT.</b>	18.	CMIE: Prowess IQ		<b>SWAYAM / NDL</b>
2.	Grammarly	19.	EViews 8	33.	National Digital Library
3.	Turnitin	20.	ISI Emerging Markets	34.	SWAYAM
	<b>ELECTRONIC JOURNAL DATABASES</b>	21.	SPSS: AMOS	35.	Consortium for Educational Communication (CEC)
4.	EBSCO	22.	STATA		
5.	JSTOR		<b>COMPANY DATABASE</b>		
6.	Co-Design	23.	Capitaline AWS		
7.	Current Science		<b>STATISTICAL DATABASE</b>		
8.	Ergonomics in Design	24.	IndiaStat		
9.	Design and Culture	25.	EPWRF India Time Series		
10.	Design for Health		<b>LAW DATABASES</b>		
11.	The Design Journal	26.	<u>American Journal of International Law</u>		
12.	Design Issue	27.	<u>International Legal Materials</u>		
	<b>ENGINEERING DATABASES</b>	28.	Law & Literature		
13.	DELNET	29.	Live Law		
14.	NPTEL		<b>MARKETING DATABASES</b>		
	<b>E-BOOKS DATABASES</b>	30.	WARC		
15.	E-brary		<b>CASE STUDY DATABASE</b>		
16.	Pearson E-Books	31.	Harvard Business School Publishing		

**6. Course Structures & Guidelines – of all programmes**

**B.Sc. Data Science**

Semester I			Semester II		
S.No	Course Name	Credits	S.No	Course Name	Credits
1	Descriptive Statistics – I (Theory)	3	1	Descriptive Statistics – II (Theory)	3
2	Descriptive Statistics – I (Practical)	1	2	Descriptive Statistics – II (Practical)	1
3	Introduction to Probability Theory	4	3	Probability Models for Discrete Data	3
4	Elementary Number Theory	3	4	Probability Models for Continuous Data	4
5	Univariate Calculus	4	5	Numerical Methods (Theory)	2
6	Discrete Mathematics	4	6	Numerical Methods (Practical)	1
7	Foundations of Computer Science (Theory)	1	7	Linear Algebra	4
8	Foundations of Computer Science (Practical)	0.5	8	Introduction to Programming (Theory)	3
9	Introduction to R	1	9	Introduction to Programming (Practical)	1
10	Environmental Studies	3.5	10	Effective Communication	2
	<b>Total Credits</b>	<b>25</b>		<b>Total Credits</b>	<b>24</b>

Semester III			Semester IV		
S.No	Course Name	Credits	S.No	Course Name	Credits
1	Statistical Inference for Data Science – I	3	1	Statistical Inference for Data Science – II	3
2	Sampling Distributions & Applications	3	2	Design of Experiments	3
3	Statistics Lab – I	1	3	Regression Analysis	3
4	Multivariable Calculus	3	4	Statistics Lab - II	1
5	Mathematics Lab - I	1	5	Theory of Optimization & Graph Theory	3
6	Data Management	3	6	Mathematics Lab - II	1
7	Technology Lab – I	1	7	Machine Learning – I	3
8	Data Analysis using Python	1	8	Technology Lab - II	1
9	Research Writing	2	9	Data Wrangling with Python	1
10	Research Initiative in Data Science – I	2	10	Research Ethics	2
	_____	_____	11	Research Initiative in Data Science – II	2
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>23</b>


Semester V			Semester VI		
S.No	Course Name	Credits	S.No	Course Name	Credits
1	Multivariate Analysis	3	1	Markov Chains	3
2	Operations Research	3	2	Time Series & Forecasting	3
3	Statistics Lab – III	1	3	Statistical Process Control	3
4	Differential Equations	3	4	Statistics Lab - IV	1
5	Mathematics Lab - III	1	5	Deep Learning Techniques	3
6	Machine Learning – II	3	6	Technology Lab – IV	1
7	Technology Lab – III	1	7	Data Visualization and Modelling	1
8	Big Data Analytics	1	8	Entrepreneurship Skills	2
9	Professional Skills	2	9	Capstone Project	3
10	Research Initiative in Data Science – III	2		_____	_____
	<b>Total Credits</b>	<b>20</b>		<b>Total Credits</b>	<b>20</b>

Total Credits - 132
Total Courses - 60

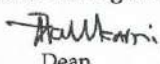
## 7. Approved Academic Calendar of all programs

SVKM's NMIMS Academic Calendar for the Academic Year : 2023-2024 Nilkamal School of Mathematics, Applied Statistics & Analytics, Campus: Mumbai Applicable to Other Campus/s: Navi Mumbai, Bengaluru and Hyderabad				
<b>Mumbai:</b>				
Bachelor of Science (Honours) Mathematics (III Year)				
Bachelor of Science (Applied Mathematical Computing) (I & II Year)				
Bachelor of Science (Applied Statistics & Analytics) (I, II & III Year)				
Bachelor of Science (Data Science) (I, II & III Year)				
Master of Science (Statistics & Data Science) (I & II Year)				
Master of Science (Applied Statistics & Analytics) (I & II Year)				
Master of Science (Data Science) Year I				
Ph.D. in Statistics Year I				
<b>Bengaluru:</b>				
Bachelor of Science (Applied Statistics & Analytics) (I & III Year)				
Bachelor of Science (Data Science) (I & II Year)				
<b>Navi Mumbai:</b>				
Bachelor of Science (Applied Statistics & Analytics) (I & III Year)				
Bachelor of Science (Data Science) (I, II & III Year)				
Bachelor of Science (Honours) Artificial Intelligence (I, II & III Year)				
<b>Hyderabad:</b>				
Bachelor of Science (Applied Statistics & Analytics) (I & III Year)				
Bachelor of Science (Data Science) (I Year)				
Details	Semester	Start date	End Date	No. of Days /No. of weeks (Excluding Sundays/holidays)
<b>Term I UG (Semester I, III, V) &amp; PG (Semester I &amp; III)</b>				
Orientation/Induction Program	All PG. & UG Programs	17.07.2023	22.07.2023	6 Days
Academic Instruction Duration (Regular Classes)	All Programs	18.07.2023	24.11.2023	95 Days (15 weeks 4 Days)
# Mid Term Test \ Internal Continuous Assessment	All Programs	04.09.2023	09.09.2023	6 Days
Term End Exams	All Programs	30.11.2023	16.12.2023	15 Days
Re-Exams	All Programs	05.02.2024	17.02.2024	12 Days
Diwali Vacation		10 <sup>th</sup> Nov, 2023	16 <sup>th</sup> Nov, 2023	7 Days
<b>Term II UG (Semester II, IV, VI) &amp; PG (Semester II &amp; IV)</b>				
Academic Instruction Duration (Regular Classes)	All Programs	18.12.2023	24.04.2024	93 Days (15 weeks 2 Day)
# Mid Term Test \ Internal Continuous Assessment	All Programs	12.02.2024	17.02.2024	6 Days
Term End Exams	All Programs	29.04.2024	16.05.2024	15 Days
Re-Exams	All Programs	08.07.2024	20.07.2024	12 Days
Winter Vacation		26 <sup>th</sup> Dec, 2023	01 <sup>st</sup> Jan, 2024	7 Days
Summer Vacation	For Faculty	20.05.2024	30.06.2024	42 Days
	For Students	17.05.2024	04.07.2024	49 Days
Convocation	2nd Week of August, 2024			Subject to Change
Commencement of First Year in next Academic year (AY 2024-25)	All Programs	05.07.2024		

# Regular Lectures will not be conducted during Mid Term Exams.

  
Academic Coordinator  
(NSOMASA)


Ms. Vaishali Rain / Ms. Manasi Naik

  
Dean  
(NSOMASA)

Dr. Sushil Kulkarni

  
DR-Academics  
(NMIMS)

Ms. Vandana Kushte

  
Controller of Examinations  
(NMIMS)

Mr. Ashish Apte

**8. LIST OF HOLIDAYS FOR THE YEAR 2023**

	<b>NMIMS (Mumbai)</b>	<b>Calendar 2023</b>	
	<b>OCCASION</b>	<b>DATE</b>	<b>DAY</b>
1	Republic Day	26-Jan-2023	Thursday
2	Holi	07-Mar-2023	Tuesday
3	Ugadi	22-Mar-2023	Wednesday
4	Good Friday	07-Apr-2023	Friday
5	Ramzan-Id	22-Apr-2023	Saturday
6	Labor Day	01-May-2023	Monday
7	Independence Day	15-Aug-2023	Tuesday
8	Ganesh Chaturthi	18-Sep-2023	Tuesday
9	Gandhi Jayanti	02-Oct-2023	Monday
10	Mahanavami, Ayudha Pooja	23-Oct-2023	Monday
11	Dushera	24-Oct-2023	Tuesday
12	Kannada Rajyothsava	01-Nov-2023	Wednesday
13	Diwali	13-Nov-2023	Monday
14	Diwali (Balipratipada)	14-Nov-2023	Tuesday
15	Diwali (Bhaubeej)	15-Nov-2023	Wednesday
16	Christmas	25-Dec-2023	Monday

Classes/Lectures will be conducted, if required (except on the National Holidays i.e. January 26, August 15, May 01 & October 02)

## 9. People you should know

### School Administration

Name	Designation
Mr. Shailesh Patel	Chairman, Local Management Committee
Dr. Narayani Ramachandran	Director
<b>Faculty:</b>	
Dr. Santosha C D	Assistant Professor & PGP Chairperson
Dr. Kavya S	Assistant Professor
Dr. Sindhu Palonnath Mana	Assistant Professor
Prof. Anwasha Chattopadhyay	Assistant Professor
<b>Academic Administration:</b>	
Mrs. Kalashri K N	Assistant Registrar (Academics)
Ms. Moumita Karmakar	Course Coordinator (Academics)
Mrs. A Devi	Assistant Registrar (Exams)
Ms. Kavyashree S	Coordinator (Exams)
Mr. Mansoor Ahmed	Assistant (Exams)
<b>Placement:</b>	
Mr. Ekalavya Baruah	Deputy Director, Placements
Mr. Sangram Wadkar	Assistant Director, Placements
Mrs. Lily Sarkar	Jr. Placement Executive
Mr. Shekar	Placement Executive
Mr. Joseph Joy	Placement Coordinator
<b>General Administration:</b>	
Mr. Chandramohan Shahabad	Joint Registrar
Mr. Vishnu Bhat	Deputy Registrar & Rector Hostel
Mr. Rajesh S.	Administration Officer
Mr. Niranjana	Maintenance Engineer
Mr. Rajarama Kalkura M	Assistant
Mrs. Rajeshwari V	Reception Cum Telephone Operator
Mrs. Archana Myagerimath	Secretary to Director
Mr. Srinivasa K	Security Officer
<b>Accounts:</b>	
Mr. Mallikarjunaiah C R	Assistant Accountant
Mr. Ramachandra	Assistant Accountant
Mr. Shivraj Kumar M	Assistant Accountant
<b>Library:</b>	
Mr. Vasantha D.	Senior Assistant Librarian
Mr. Srinivas Murthy	Library Assistant
Mr. Bheemashankar	Library Assistant
Mr. Ameet Kumar R Joshi	Library Assistant
<b>IT Administration:</b>	
Mr. Vijaya Kumar R	IT Project Engineer
Mr. Pankaj Kumar Panigrahi	IT System Admin
Mr. Rupesh Kumar	Laboratory Assistant (Computer)
<b>Admission:</b>	
Mr. Nitesh Balraju	Student Counsellor
<b>Marketing:</b>	
Ms. Shradha Pattnaik	Marketing Executive



**10. NMIMS INFOLINE (for Bangalore Campus)**

<b>Agency</b>	<b>Number</b>
<b>Police</b>	
Police Help Line	<b>100 /103</b>
Bannerghatta police station	080-2782 8595
Traffic Help Line	1095/ 080-2294 3030/ <b>131</b>
Harassed by Auto Drivers?	080-25588444 / 555
Commissioner of police	22260707 / 22942215 / 22943399
<b>Fire Brigade</b>	
Fire Brigade Help Line	<b>101</b>
Central Fire control Room	22942999 / 22251780
Fire & Safety service	22265276
<b>Ambulance</b>	102/1062/1051 /105711/1062/ <b>108</b>
<b>Hospitals</b>	
Fortis Hospital	080-66214444, 9663367253
Vijayashree Hospitals	080 4906 8888
<b>Travel Agency</b>	
Cabs Group	080-41713366
<b>Chemist</b>	
Careongo Pharmacy	089998 08080
Divyasree Medicals	080 4096 9299
<b>Hostel</b>	
Mr. Shiv Sharma ( Boys and Girls Hostel)	9663068526, 8770776731