

Jesus and Mary College

University of Delhi
Chanakyapuri, New Delhi - 110021
Accredited by NAAC with "A" Grade



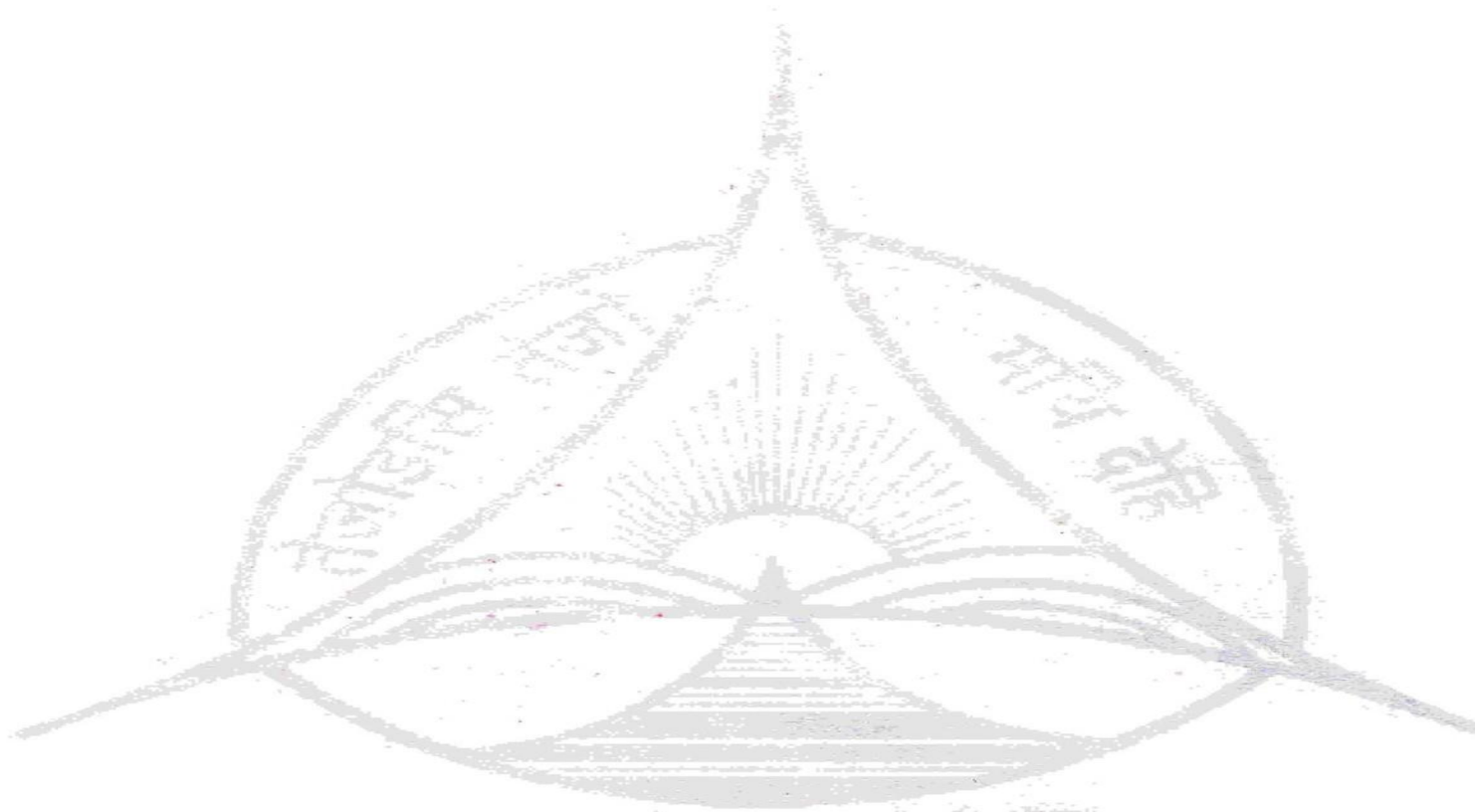
Tel No. : +(91)-(011)-26110041, 26875400
Fax No. : +(91)-(011)-24105466
Website : <http://www.jmc.ac.in>
Email Id : jmcadm@yaho.co.in
info@jmc.ac.in
principal@jmc.ac.in

ACTION TAKEN REPORT

DEPARTMENT OF MATHEMATICS

In a meeting, the Department has comprehensively analyzed and discussed the data received from the IQAC regarding the feedback from various stakeholders. The 'self-assessment proforma' has been used to reflect on the various processes of the Department. We are cognizant of our strengths and shall work to address the challenges that lie ahead.

Dr. Indrakshi Dutta
(Teacher-in-charge)



Please use the following format to assess your own Department over the last 5 years (from 2015 onwards) along with a brief rationale for the same.

DEPARTMENT SELF ASSESSMENT FORMAT

	The department:	1	2	3	4	5	Remarks/ Supportive statements (with examples and documents)
1	Indulges in curriculum enrichment	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	2 <ul style="list-style-type: none"> R workshop R Workshop Report Link UGC National Seminar on “Relevance of Mathematics for Employability” Seminar on "Relevance of Mathematics for Employability" Link Participation of faculty in syllabus Committee/Paper Setting Participation in Curriculum Enrichment
2	Takes feedback from students each semester	Almost always	Often	Sometimes	Seldom	Never	1 <ul style="list-style-type: none"> Feedback from Students (feedback form is available on website) Feedback by Students Link
3	Caters to student diversity	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1 <ul style="list-style-type: none"> Heterogeneous class in many respects: regional, religious Diversity of Students Link

4	Takes interest in promoting opportunities for experiential learning for students	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1 <ul style="list-style-type: none"> • Newsletter: Algorithm Mathematics Department Newsletter Link • We conduct workshops/lectures/seminars/webinars to focus on connecting mathematics with real life. Department Reports Link • Guide students to undertake research projects/internships. Students Internship Record • Research paper by Students as an outcome of R workshop. R Workshop Report Link
5	Facilitates the students' cognitive, social and emotional growth through teacher student mentoring process	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1 <ul style="list-style-type: none"> • Related to this Mentor ward group is created. Moral support during pandemic for students under stress during the mentoring process. Mentor ward List Link
6	Identifies strengths of students and encourages them with appropriate level of challenges	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	2 <ul style="list-style-type: none"> • We identifies talent and encourage them to do better Link • Participation of Students in Various Society Students Extra-Curricular Activities Link

7	Makes efforts to engage students in review and continuous quality improvement of teaching learning process	Almost always	Often	Sometimes	Seldom	Never	1 <ul style="list-style-type: none"> • Internal Assessment • More practice questions • Use special ICT tools • Engaging students in Presentation by giving topics related to curriculum • Use of Projector • Providing Written Notes/Audio Video Lectures on different platforms as requirement <p>Link 1 (Online Lecture Videos by Dr. Rashmi Thukral) Link</p> <p>Link 2 (Online Lecture Videos by Dr. Monica Rani) Link</p>
8	Encourages student participation in co-curricular activities	Almost always	Often	Sometimes	Seldom	Never	1 <ul style="list-style-type: none"> • Mention all department activities. • Participation in all events by students. • Monthly assembly organized by students <p>Department Reports Link Department Activities Link Students Extra-Curricular Activities Link</p>
9	Puts specific efforts to inculcate soft skills, life skills and employability/ financial independence	Almost always	Often	Sometimes	Seldom	Never	1 <ul style="list-style-type: none"> • Self Defense workshop Self Defense Workshop Link • UGC National Seminar on “Relevance of Mathematics for Employability” Seminar on "Relevance of Mathematics for Employability" Link

							<ul style="list-style-type: none"> • Talk on Number theory • Workshop on “Sexual Harassment at Workplace” Sexual Harassment Workshop Report Link • Bapu Dham School Project Bapu Dham Reports Link • Students are different part of societies Students Extra-Curricular Activities Link
10	Systematically encourages reflective practices in the pedagogy and assignments	Almost always	Often	Sometimes	Seldom	Never	1 <ul style="list-style-type: none"> • Supporting Documents are given in points 7.
11	Changes the assignments given to students each semester	Almost always	Often	Sometimes	Seldom	Never	1 <ul style="list-style-type: none"> • Innovative Assessment Process Link
12	Has extension activities and outreach	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	3 <ul style="list-style-type: none"> • Bapu Dham School project Bapu Dham Reports Link • One faculty have participated as resource person in summer school organised by ILLL, in 2017. Link
13	Uses student centric methods for enhancing learning	Almost always	Often	Sometimes	Seldom	Never	1 <ul style="list-style-type: none"> • Supporting Documents are given in points 7.

	experiences						
14	Analyses student results	Almost always	Often	Sometimes	Seldom	Never	1 The department along with the Principal analyses the students results and compares the performance with the other colleges.
15	Uses analyses of results for future planning	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	2 <ul style="list-style-type: none"> Adopt this as a good practice of dept. at dept. level). Analyze the result through mentor ward
16	Keeps track of student progression	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	3 <ul style="list-style-type: none"> LOR LOR Details Link
17	Tracks alumni	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	3 <ul style="list-style-type: none"> Alumni Details Alumni Details Link
18	Organizes student activities	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1 <ul style="list-style-type: none"> Students Activities organized by Department Department Activities Link
19	Creates opportunity for enriching teacher quality	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	3 <ul style="list-style-type: none"> Department will organize seminar and FDP Teachers are given opportunity to pursue higher studies like M.Phil., PHD etc. Teachers are encouraged to attend FDPs/Seminars/Refresher Courses/Orientation Courses Department Reports Link FDP/Workshop/Seminar Attended by Faculty
20	Follows fair evaluation process	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1 <ul style="list-style-type: none"> Retest are given to students to improve grades

21	Has timely evaluation process	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1	<ul style="list-style-type: none"> We follow the guidelines given by University of Delhi for evaluation process.
22	Evaluation process is meaningful to the students	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1	<ul style="list-style-type: none"> Regular evaluation helps better understanding of the subject
23	Has library support for research	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1	
24	Supports faculty for undertaking research	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	2	<ul style="list-style-type: none"> Mental/Emotional/Moral Support by department by adjusting the responsibilities in department/college workload.
25	Provides opportunity to students for research outside curriculum	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	1	<ul style="list-style-type: none"> Participation of Students in Madhava Competition Participation in Madhava Mathematics Competition Link R workshop R Workshop Report Link Science Academics' lecture workshop Science Academic Lecture Workshop Link
26	Supports in-house collaboration (intra and inter department collaboration)	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	2	<ul style="list-style-type: none"> R workshop R Workshop Report Link Debate Competition Inter departmental Paper Presentation

							Department Reports Link
27	Supports collaboration with external bodies	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	3 <ul style="list-style-type: none"> Science academics lecture workshop collaboration Science Academic Lecture Workshop Link UGC National Seminar on “Relevance of Mathematics for Employability” Seminar on "Relevance of Mathematics for Employability" Link Career Counseling Talk by Time Collaboration with Warwick University (add details) Signed MOU with Flarrio University Collaboration with External Bodies Link
28	Has physical facilities that supports your plan	Excellent	Above average	Average	Below average	Poor	1 <ul style="list-style-type: none"> Multimedia rooms Projectors Lab
29	Has provision for learning resources	Excellent	Above average	Average	Below average	Poor	1 <ul style="list-style-type: none"> Library Lab
30	Has access to learning resources	To a very great extent	To a great extent	To a moderate extent	To some extent	Not at all	2 <ul style="list-style-type: none"> Software (R, Latex) Library e-resources Access to journals and e-books

31	Has IT infrastructure	Excellent	Above average	Average	Below average	Poor	1
----	-----------------------	------------------	---------------	---------	---------------	------	---

- What are your Best practices?

- 1) All the talks/events/seminars/workshops organized by department of Mathematics are **Students Centric**.
- 2) All faculty members ensure the timely completion of syllabus and encourages the students to use reference books for better understanding of the subject.
- 3) Various techniques like sharing content by **e-resources**, relevant links for the topics etc. are used for effective teaching.
- 4) Students take up the **research projects** under the guidance of department faculty. Faculty takes active interest to guide the students for their presentation.
- 5) The students of mathematics department were encouraged to start a bi-annual newsletter in 2018. The newsletter was named as **“Algorithm”** which showcases the brilliance of department. The editorial board pours in their creativity and thought-provoking ideas. It has been created to serve as a platform where people from different courses, colleges and students within the department feel connected.
- 6) **Letter of Recommendation (LORs)/ Reference Letters** are provided to the students by the faculties to support them for higher studies and for attending workshops/internship programs.

[LOR Details Link](#)

[Students Internship Record](#)

- Do you align yourself with best practices of college?

Yes.

For this purpose, the following activities were conducted by Mathematics department:

- 1) Seminar on “Relevance of Mathematics for Employability”
[Seminar on "Relevance of Mathematics for Employability" Link](#)
- 2) We encourage our students to switch off the lights while leaving the class and also to maintain cleanliness in the college.

- Reflect on the department's strength and weaknesses.

Strengths

- 1) The department has a dedicated and committed faculty that encourages the students to take up research-oriented projects.
- 2) Some faculty members organize and conduct research workshops in collaboration with other departments focusing on enhancing research skills of students.

Weaknesses

- 1) Internet facilities need to be upgraded.
- 2) Up gradation of computerized hardware and software facilities.
- 3) The Department Room is under-utilized.

- What are your plans for next:

- 1 year

- 1) To conduct Alumni Meet.
- 2) To organize FDPs for skill enhancement for teaching faculty.

- 3 years

- 1) Keep records of all the department data systematically. (Alumni data, Results of students and its Analysis etc.)
- 2) To organize outreach program/workshops in collaboration with internal (in house) and external bodies.
- 3) To propose the start of B.Sc.(H) Statistics course in JMC.