

J.S. UNIVERSITY

SHIKOHABAD, FIROZABAD

PIN-283 135 (U.P.) INDIA

Website: www.jsu.ac.in, www.jsu.edu.in



जे.एस. विश्वविद्यालय

शिकोहाबाद, फिरोजाबाद

पिन-283 135 (उ.प्र.) भारत

E-mail: jsuniversityshikohabad@gmail.com

J20/2022/200/10

Established by the U.P. Govt. Act No. 7 of 2015
Recognized by U.G.C. under section 2(f) of Act. 1956

14/4/22

Minutes of Meeting for the meeting of the Board of Study (Faculty of Science for Masters of Science)

Date and Venue: 14-04-2022 at 11:00 am in the conferences room of the university.

Attendance:

SR.NO	MEMBER	SIGN
1	Convener/Dean Faculty of Science-Dr.B.P.S.Chauhan JS.UNIVERSITY	
2	Dr.Harish Chandra Singh, HOD BOTONY J.S University Member	
3	Dr. ANURADHA NEGI Assoc.Professor Agra College Agra (External Expert) Member	
4	Dr. Seema Bhadoriya Professor SLS khandari campus Agra (External Expert) Member	
5	Dr. Mohit Johri , HOD Physics Department J.S University Member	
6	Prof.PRABHAKAR SINGH, ST.JOHNS COLLEGE Agra. (External Expert) Member	
7	DR.RAKESH YADAV, NARAYAN COLLEGE SHIKOHABAD (External Expert) Member	
8	Prof. MAMATA KUMARI HOD ZOOLOGY Department J.S Univesity (Member)	
9	Prof.R.K.VERMA ZOOLOGY Department RBS COLLEGE Agra. (External Expert) Member	
10	Prof. J.K. AWSTHI NARAYAN COLLEGE SHIKOHABAD. (External Expert) Member	
11	Dr.AMIT KUMAR CHATURVEDI HOD CHEMISTRY Department J.S. University. Member	
12	Prof. MANOJ YADAV HOD CHEMISTRY Department NARAYAN COLLEGE SHIKOHABAD. (External Expert) Member	
13	Prof. AJAY TANEJA DBRAU AGRA. (External Expert) Member	
14	PROF.P.P.SINGH HOD MATHEMATICS Department J.S. University (Member)	
15	Prof. A.K.SINGH, HNB GAHRWAL UNIVERSITY UK. (External Expert) Member	
16	Prof. N.P.SINGH EX HOD . MATHEMATICS Department C.L.COLLEGE FIROZABAD (External Expert) Member	
17	Prof. AKHILESH UPADHYAY DEAN ACADIMICS J.S.UNIVERSITY Member	
18	Adnan Quasim, COE, J.S. University, Shikohabad, Member	

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Minutes of Meeting:

Members stressed that in accordance with the National Education Policy 2020, Uttar Pradesh. the revision of curriculum was necessary. Accordingly following revision or up gradation of existing curriculum were suggested and incorporated and some topics were obsolete they were removed In addition to above following new courses were suggested and incorporated as per new education policy 2020 Faculty Of Science For Masters of Science

Department Of Botany These New Courses were suggested and incorporated as per new education policy

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER	
1	Bachelor (Research) of Science in Botany	VII	Microbiology, Microbial Genetics and Applications	4	B040701T	
			Mycology and Plant Pathology	4	B040702T	
			Phycology, Lichenology and Bryology	4	B040703T	
			Pteridophytes, Gymnosperms and Paleobotany	4	B040704T	
			Practical	4	B040705P	
			RESEARCH PROJECT			
2		VIII	Plant Anatomy, Development and Reproduction	4	B040801T	
			Plant Systematics and Taxonomy of Angiosperms	4	B040802T	
			Cytology, Cytogenetics and Plant Breeding	4	B040803T	
			Conservation of Plant Diversity, Plant Propagation and IPR	4	B040804T	
			Industrial Microbiology	Choose ANY	4	B040805T
			Ethnobotany, Pharmacognosy and Phytochemistry	ONE	4	B040805T
	Practical			4	B040807P	
	Research Project			8	B040808R	
One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester			4/5/6			
3	IX	Plant Physiology and Biochemistry	4	B040901T		
		Ecology and Environment Conservation	4	B040902T		
		Integrated Pest and Disease Management	4	B040903T		
		Ecotourism and Heritage Conservation	Choose ANY	4	B040904T	
		Green technologies, Green Auditing and Circular Economy	ONE	4	B040905T	

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4	Master of Science in Botany	X	Advanced Phycology	Choose ONE	4	B040906T
			Forest Botany, Dendrology and Economics	ANY	4	B040907T
			Soil Conservation and Reclamation	ONE	4	B040908T
			Practical		4	B040909P
			RESEARCH PROJECT			
			Plant Resources and Utilization		4	B041001T
			Molecular Biology, Biotechnology and Bioinformatics		4	B041002T
			Plant Nursery, Gardening and Landscaping	Choose ANY	4	B041003T
			Biotechnology and Human Welfare	ANY	4	B041004T
			Crop Genetics and Plant breeding	ONE	4	B041005T
			Weed Biology and management	Choose ANY	4	B041006T
			Seed Pathology	ANY	4	B041007T
			Plant Genomics and Proteomics	ONE	4	B041008T
			Practical		4	B041009P
Research Project		8	B041010R			
5	P.G.D.R.	XI	Instrumentation and Phytotechniques		6	B041101T
			Biostatistics and Computer Application		6	B041102T
			Research Methodology		4	B041103T
			Research Project	Qualifying		B041104R

In This Program VII,VIII,IX,X Semester Dissertation /Project is Incorporated

Department Of Chemistry These New Courses were suggested and incorporated as per new education policy

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER	
			Computer for Chemists	5	B020701T	
2	Bachelor (Research) of Chemistry	VIII	Adulterant in Foods (Minor for OTHER FACULTY)	1	B020705T	
			Research Project			
			Group Theory and Spectroscopy	4	B020801T	
			Bio-Inorganic Chemistry	4	B020802T	
			Bio-Physical Chemistry	4	B020803T	
			Spectroscopic Methods of Analysis	4	B020804T	
			Practical	4	B020805P	
			Research Project	8	B020806R	
			One Minor Paper to be selected from OTHER FACULTY in VIII or VII Semester	1/5/6		
			3	M.Sc. in Chemistry	IX	Photo and Stereochemistry
Solid State Chemistry, Surface Phenomenon and Chemical Equilibria	5	B020902T				
Coordination Chemistry	5	B020903T				
Basic Analytical Chemistry	5	B020904T				
Chemistry of Natural Products	Choose any ONE	5				B020905T
Polymer Chemistry	5	B020906T				
Research Project						
Interdisciplinary Topics	4	B021001T				
Separation Techniques	4	B021002T				
Advance Analytical Methods	4	B021003T				
			Practical	4	B021007P	
			Research Project	8	B021008R	

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J50/2022/80/10

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14/4/22

In This Program VII, VIII, IX, X Semester Dissertation /Project is Incorporated

Department of Physics These New Courses were suggested and incorporated as per new education policy

M.Sc. (PHYSICS)

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER
1	Bachelor (Research) of Science in Physics	VII	Mathematical Methods in Physics	4	B010701T
			Classical Physics	4	B010702T
			Atomic Spectra	4	B010703T
			Electrodynamics	4	B010704T
			Experimental work	4	B010705P
			Research Project-1		
2		VIII	Computational Methods in Physics	4	B010801T
			Statistical Physics	4	B010802T
			Molecular Spectra	4	B010803T
			Relativity and Cosmology	4	B010804T
			Plasma Physics	4	B010805T
			Laser Physics	Choose ANY ONE	4
	Semiconductor Physics		4		B010807T
	Biophysics		4		B010808T
	Environmental Physics		4		B010809T
	Experimental work		4	B010810P	
Research Project-2	8	B010811R			
One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester			4/5/6		

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14/11/22

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER		
3	Master of Science in Physics	IX	Quantum Mechanics	4	B010901T		
			Nuclear Physics	4	B010902T		
			Specialization Paper: Select Any Set(A/B/C/D)				
			Set- A				
			Electronics-I	4	B010903T		
			Electronics-II	4	B010904T		
			Experimental work(Electronics)	4	B010905P		
			Set- B				
			Condensed Matter Physics-I	4	B010906T		
			Condensed Matter Physics-II	4	B010907T		
			Experimental work(Condensed Matter Physics)	4	B010908P		
			Set-C				
			Renewable Energy Physics-I	4	B010909T		
			Renewable Energy Physics-II	4	B010910T		
			Experimental work(Renewable Energy Physics)	4	B010911P		
			Set-D				
Nanophysics-I	4	B010912T					
Nanophysics-II	4	B010913T					
Experimental work(Electronics)	4	B010914P					
Research Project-3							
4	Master of Science in Physics	X	Advanced Quantum Mechanics	4	B011001T		
			Particle Physics	4	B011002T		
			Specialization Paper: As Set selected in IX Semester				
			Set- A				
			Electronics-III	4	B011003T		
			Electronics-IV	4	B011004T		
			Experimental work(Electronics)	4	B011005P		
			Set-B				
			Condensed Matter Physics-III	4	B011006T		
			Condensed Matter Physics-IV	4	B011007T		
			Experimental work(Condensed Matter Physics)	4	B011008P		
			Set-C				
			Renewable Energy Physics-III	4	B011009T		
			Renewable Energy Physics-IV	4	B011010T		
			Experimental work(Renewable Energy Physics)	4	B011011P		
			Set-D				
Nanophysics-III	4	B011012T					
Nanophysics-IV	4	B011013T					
Experimental work(Nanophysics)	4	B011014P					
Research Project-4							

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Department of Zoology These New Courses were suggested and incorporated as per new education policy

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M.Sc. (ZOOLOGY)

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER
1	Bachelor (Research) of Science in Zoology	VII	Systematic and Structure and Function of Invertebrate	4	B050701T
			Molecular and Cell Biology	4	B050702T
			Biological Techniques and Instrumentation	4	B050703T
			Microbiology and Immunology	4	B050704T
			Practical	4	B050705P
			Research Project		
2		VIII	Chordates Anatomy	4	B050801T
			Genetics and Biotechnology	4	B050802T
			Animal Physiology and Biochemistry	4	B050803T
			Developmental Biology	4	B050804T
			Practical	4	B050805P
			Research Project	8	B050806R
One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester				4/5/6	

3	Master of Science in Zoology	IX	Chronobiology	4	B050903T
			Genomics	4	B050904T
			Bioinformatics	4	B050905T
			Insect Pest Management	4	B050906T
			Human Population & Pollution	4	B050907T
			Vector and Vector borne Diseases	4	B050908T
			Fish Culture	4	B050909T
			Apiculture	4	B050910T
			Biodiversity Conservation	4	B050911T
			Conservation of Endangered Species	4	B050912T
			Aquaculture	4	B050913T
			Sericulture	4	B050914T

		X	Practical	4	B050915P		
			Research Project				
			Choose ANY ONE Course (A/B/C/D)				
			OPTIONAL COURSE A-ENTOMOLOGY				
			Insect Morphology and anatomy	4	B051001T		
			Insect Physiology and Development	4	B051002T		
			Insect Systematics	4	B051003T		
			Ecology and Applied Entomology	4	B051004T		
			Practical	4	B051005P		
			Research Project	8	B051006R		
			OPTIONAL COURSE B-ICHTHYOLOGY				
			Systematics and Morphology of fishes	4	B051007T		
			Physiology and Embryology Fishes	4	B051008T		
			Aquaculture and fisheries	4	B051009T		
			Pisciculture and economic importance	4	B051010T		
			Practical	4	B051011P		
			Research Project	8	B051012R		

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14/4/24

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P.G.D.R.	Master of Science in Zoology	X	OPTIONAL COURSE C-PARASITOLOGY		
			General Parasitology	4	B051013T
			Biology of Parasite	4	B051014T
			Parasitological Technique	4	B051015T
			Host Parasites Interaction	4	B051016T
			Practical	4	B051017P
			Research Project	8	B051018R
			OPTIONAL COURSE D-WILDLIFE AND ENVIRONMENTAL BIOLOGY		
			Wildlife Ecology	4	B051019T
			Wildlife Biodiversity and Conservation	4	B051020T
			Environmental Physiology	4	B051021T
			Environmental Pollution and Management	4	B051022T
			Practical	4	B051023P
			Research Project	8	B051024R
		XI	Application of Biostatistics in Research	6	B051101T
			Instrumentation in Applied Research	6	B051102T
			Research Methodology	4	B051103T
			Research Project	Qualifying	B051104R

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Department of Mathematics These New Courses were suggested and incorporated as per new education policy

M.Sc. (MATHEMATICS)

S.No.	Name of Degree	SEMESTER	TITLE OF PAPER	CREDITS	CODE NUMBER		
1	Science in Mathematics	VII	Abstract Algebra	5	B030701T		
			Real Analysis	5	B030702T		
			Ordinary Differential Equations	5	B030703T		
			Complex Analysis	5	B030704T		
			Introductory Statistical Methods (Minor For OTHER FACULTY)	4	B030705T		
			Research Project				
			Inventory and Queuing Models	4	B030801T		
2	Bachelor (Research)	VIII	History & Development of Indian Mathematics	Choose Any one	4 B030804T		
			Wavelet Analysis	4	B030805T		
			Riemannian Geometry & Tensor Analysis	4	B030807T		
			Computer Programming with C/C++	4	B030808P		
			Research Project	8	B030809R		
			One Minor Paper to be selected from OTHER FACULTY in VII or VIII Semester			4/5/6	
			3	of Science in Mathematics	IX	Topology	5
Operations Research	5	B030902T					
Advanced Fluid Mechanics	5	B030903T					
Financial Mathematics	Choose Any one	5 B030904T					
Computational Fluid Dynamics	5	B030905T					
Bio-Mathematics	5	B030906T					
Integral Equations & Boundary Value Problems	5	B030907T					
Research Project							
X	Functional Analysis	4			B031001T		
	Space Dynamics	4			B031002T		
	Calculus of Variations	4			B031003T		
	Coding Theory	Choose Any one			4 B031004T		
	Special Functions	4			B031005T		
	Fractional Calculus	4			B031006T		
	Mathematical Modelling	4	B031007T				
4	Master	X	Discrete Mathematical Structure	Choose Any one	4 B031008T		
			Cryptography	4	B031009T		
			Vedic Ganita	4	B031010T		
			Cosmology	4	B031011T		
			Theory of Relativity	4	B031012T		
			Computer Programming with Matlab (Problems of Operations Research and Problems of Numerical Methods)	4	B031013P		
			Research Project	8	B031014R		

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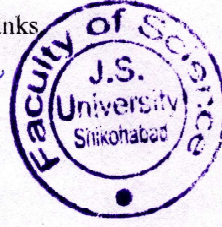
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The meeting ended with vote of thanks

Dean Faculty of Science



Attachment-

Masters of Arts New Syllabus as per CBCS NEP 2020