

DR. SHYAMA PRASAD MUKHERJEE UNIVERSITY, RANCHI

Regulations for Add-on/Part-time optional Certificate Courses UNDER THE DEPARTMENT OF MATHEMATICS & MCA

Regulations for add-on/Part-time optional Certificate Courses concurrent with the regular Full-time 3 year Bachelor's Courses/Pass out Students/ External Students.

Notwithstanding anything contrary to the provisions contained in Dr. Shyama Prasad Mukherjee University Regulations for the Bachelor's examinations in Science, Social Science, Humanities and Commerce and the amendments therein, following add-on/part-time optional vocational courses on **self-financing** basis concurrent with the regular **full-time Bachelor's courses or pass out students or External students** are introduced which shall be effective from the academic session beginning 2019-2020.

And whereas the new add-on/part-time optional vocational courses at the degree level leading to a Certificate concurrent with the regular Bachelor's degree have been designed in concurrence with the UGC directives/guidelines to meet the demand for increased qualitative and analytical skills in the emerging area of professional studies. These courses to be introduced on self-financing basis shall be as under:

Certificate Courses Offered

Certificate Courses:

1. **Certificate Course in Office Automation:** Basics of computer, Windows, MS Office, Communicating using Internet, Web Browser, Communication and Collaborations, Making small presentation
Eligibility: 10/+2 pass/Undergoing/Graduation
2. **Certificate Course in Web Designing:** Introduction to Internet & Web, HTML, DHTML, JAVA Script, Flash PhotoShop, CSS Project on Website Development
Eligibility: +2/Undergoing/Graduation with Basic knowledge of Computer Science
3. **Interactive Multimedia Development:** Dreamweaver, Photoshop, Sound Forge, Premier Pro, 2D flash / 3dx Max
Eligibility: 10/+2 pass/Undergoing/Graduation

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4. **Certificate Course in PC, Hardware & Networking:** Introduction to PC H/W, H/W installation and configuration, PC debugging, troubleshooting & maintenance, S/W installation & configuration, Networking basis & configuration
Eligibility: 10/+2 pass/ Undergoing/Graduation
5. **Certificate Course in ASP.Net with C#:** Dot Net framework Using ASP.net and C# Reviews, OOPs concept using C#, Controls in ASP.Net & ASP. Net objects, Master pages, Themes , Skins, User control, Ajax Control Tool kit, Validation controls & security Navigation tools, Database concepts, Data controls, classes, objects, DLL's, Publishing & Deploying Web App, Membership service, Advance concepts – LinQ, projects
Eligibility: Undergoing/Graduation with knowledge of any programming
6. **Certificate course in Advanced Development using PHP:** Introduction to PHP, Introduction to AJAX, OOPs concept in PHP, Concept in MySQL Database, Data Base programming using PHP and MySQL, concept of CMS
Eligibility: +2 Pass & Basic programming knowledge
7. **Certificate course in Network Administration:** Computer Network, Topology, Protocol, Networking Hardware, Network configuration, Network Addressing, Routing and routed Protocols, VLAN, ACL, Server installation and troubleshooting
Eligibility: 10 + 2 & Basic knowledge of Computer Programing
8. **Certificate course in advanced JAVA (J2EE):** Introduction to core JAVA & J2EE, SQL & JDBC, Beans in Servlet, Introduction to Struts framework, JSP, Hibernation
Eligibility: Undergoing/Graduation & Basic knowledge of Computer
9. **Certificate course in Information Security & Cyber LAW:** Information Security, Security services, mechanism & attack, physical & system security, Internet & web parity, Network security fundamentals, IT Act & Cyber Law, Case study
Eligibility: Basic knowledge of Computer & Networking
10. **Certificate course in Oracle SQL & PL/SQL:** Introduction to RDBMS & ORDBMS, Basic PL/SQL, Control Structure & Procedure & Function, Cursor, Trigger, Exception Handling
Eligibility: Basic Knowledge of Computer & DBMS

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Duration of the Courses

And whereas the above-mentioned courses shall be imported as per the syllables framed by Dr. Shyama Prasad Mukherjee University in accordance with the UGC guidelines in that respect, the duration of the courses as determined by the UGC shall be under:

Certificate Course 6 months

And whereas it shall not be mandatory for the students of the full time Bachelor's courses to option for the above-mentioned part time vocational Certificate courses, this can be opted for by only those students of the college. Where they are pursuing their full-time Bachelor Courses; and therefore, the college offering the above-mentioned courses or any of them shall ensure that, this eligibility creation for pursuing the courses or any of them is strictly adhered to without any prejudice.

Eligibility for admission

Whereas a student admitted in the first year of the three-year full-time regular degree courses shall have the option to be admitted in any of the part time Certificate courses in concurrent with the degree courses in line with the guidelines as specified in the syllabi of the course.

Provided that for admission to the course of instruction for the add-on vocational course in any subject it shall be necessary for a student to have obtained qualifying marks in the '**Aptitude Test**' to be conducted by the University for admission in Certificate course in the beginning of academic session. Changes to the selection of courses may be made during the first-year subject to approval of the University and such changes shall not be reflected in the transcript.

And whereas it shall be optional for students for entire part I, part II, or part III of the full time Bachelor's courses to join the six-month Certificate Course in any of the subjects mention there to.

Course Fee

Whereas for such subjects of Certificate Courses which shall have practical has the essential segment of the course, the fee per Course shall be

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Certificate Courses:

- Rs.5000.00 (Five Thousand Only) for General category students, and
- Rs.4000.00 (Four Thousand Only) for SC/ST/OBC
- Rs.500/- (Five Hundred) Registration Fee
- Rs.1200 (One Thousand Two Hundred Only) at the time of filling of examination form.

Course Structure

There shall be two theory papers, each of 75 marks, two practical papers each of 50 marks followed by a project paper of 50 marks.

Paper No.	Papers	Full Marks	End Semester	Examination Duration
1	Theory	75	75	3 Hours
2	Theory	75	75	3 Hours
3	Practical	50	50	3 Hours
4	Practical	50	50	3 Hours
5	Project	50	50	3 Hours

Eligibility for Examination

There shall be University examination at the end of the Odd/Even Semester of study to be known respectively as the Certificate examination.

In order to qualify to appear at Certificate examination a candidate shall be required to:

- (a) Attend not less than 75% of the total number of lectures delivered and not less than 75% of the practical classes held in subject.
- (b) Appear in at least one Examination to be conducted by the University concern in each academic session and to satisfy the Head / Co-ordinator of the University Department concern on the basis of the examination and his/her performance in practical classes that he/she has made sufficient progress, and
- (c) Produce certificate required in application form to be prescribed for the purpose.
- (d) Provided that in the case of students transferred from one college to another, requirements mentioned before shall be deemed to have been satisfied if they have been compiled with partly in one college and partly in another.

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(e) Provided further that in case of a student who is absent from the college to represent the college or the University or the State at the instance of the University or with the permission of University in Republic Day celebrations, sports, games or cultural activities for a total period of not less than 10 working days in the session, the minimum number of lectures and practical to be attend in each subject shall be reduced by number of lectures and practical delivered to the college during the absence.

If students after study for the period prescribed by the Regulations for the Certificate examination fails to satisfy the conditions led down here in regulation, he/she shall be required to satisfy all the conditions in subsequent academic year before being admitted to the examination.

If a student, who after satisfying the above condition, is presented by a college at the Certificate examination, fails to appear at that examination or fails to pass that examination, he/she may appear at the examination of a subsequent year without further attendance at lectures provided that he/she produces, in addition to the certificates prescribed in the application form, certificates to the following effect from the Principal of the college at which he/she last attended:-

- (f) That he/she has satisfied the condition let down by the Regulations for appearing at Certificate exam in any previous academic year.
- (g) That he/she has completed a further course of practical or similar work for at least 10 periods at a college in each of the subjects concerned.

Examinations

Duration of examination: The examination in the Certificate Vocational Theory Papers shall be of (3) three hours duration and the examination in the vocational practical papers shall be of Four hours duration.

Pass marks: In order to pass in Certificate vocational papers in each paper of University examination, a candidate must obtain at least 45% marks in the theory paper and also must get at least 23 marks out of 50 marks in the practical /project paper.

Moderation of results

If a candidate for the Certificate examination fail to secure First or Second Class by not more than 5 marks in the Certificate vocational subject but has passed in practical and project

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papers he/she shall be awarded the marks required to enable him/her to secure First or Second class as the case may be, and his/her results shall be declared accordingly.

Publication of results and award of PG-Diploma

Every successful candidate shall receive a Certificate in the form to be prescribed by the Academic Council.

General Rules:

1. **Certificate Course:** The course will be of 30 credits. Each credit will have 15 hours of workload out of which 10 credits should be necessarily be assigned to field work/project work/training. The proof of this should be submitted during examination e.g. work experience certificate/dissertation/report etc. duly issued and signed by concerned institutional authority/coordinator/faculty.
2. Certificate in Career Oriented Programmes will be awarded on the basis of examinations results and credits earned. Students may be permitted to complete Certificate in the same subject/course or by completing the credits from the interdisciplinary career Oriented Courses.
3. There will be known watertight compartments and students will have the freedom to diversify into various field not necessarily related with their core discipline.

For instance, a student pursuing a bachelor's degree in a science subject could side by side pursue in Event Management. Similarly, a student with Arts background may have the option to pursue a course in Science Journalism.

Medium of Instruction

The medium of instruction and the medium of examination in all the vocational subject shall be English.

Number of Seats

A maximum number of 50 students will be admitted in Certificate Courses. Courses will run only if minimum of 10 students admitted in a Course.

Reservation

The reservation of the seats for different diploma vocational courses can be as per admission rules of the University for students belonging of SC/ST/BC (Annexure-1) and other categories.

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