

Pandit Sundarlal Sharma (Open) University Chhattisgarh
Ordinance No.1
Sections and Provisions

| S. No. | Ordinance Section | Provisions | Page No. |
|---------------|---|--|-----------------|
| 1 | A-1 | Admission | 01 |
| | A-2 | Lateral Entry | 02 |
| | A-3 | Multiple Entry and Exit Options in the Academic Programmes | 03 |
| 2 | B | Doctor of Philosophy (Ph.D.) | 06 |
| 3 | C-1 | Conduct of Examination and Evaluation of Student Performance | 22 |
| | C-1.1 | Choice Based Credit System and Online Course | 31 |
| | C-1.2 | पुर्नप्रवेश का प्रावधान | 32 |
| 4 | C-2 | Award of Grace Mark | 33 |
| 5 | C-3 | Re totalling & Rr-assessment of the answer books | 34 |
| 6 | C-4 | मेधावी विद्यार्थियों के लिए विश्वविद्यालय स्वर्ण पदक | 36 |
| 7 | C-5 | धर्मादा निधि से स्वर्ण पदक स्मृति | 37 |
| | C-5.1 | स्व. श्री जगदीष प्रसाद जी अग्रवाल स्मृति स्वर्ण पदक | 38 |
| | C-5.2 | स्व. श्री अनिरुद्ध कुमार दानी स्मृति स्वर्ण पदक | 39 |
| | C-5.3 | स्व. डॉ. डी.पी. शुक्ला स्मृति स्वर्ण पदक | 40 |
| | C-5.4 | स्व. श्रीमती महेश्वरी देवी त्रिपाठी स्मृति स्वर्ण पदक | 41 |
| | C-5.5 | स्व. श्रीमती किशोरी देवी एवं स्व. श्री मुरलीधर पटेरिया स्मृति स्वर्ण पदक | 42 |
| | C-5.6 | पं. श्रीराम शर्मा आचार्य, संस्थापक गायत्री परिवार हरिद्वार स्मृति स्वर्ण पदक | 43 |
| | C-5.7 | स्व. डॉ. मनोहर राय स्मृति स्वर्ण पदक | 44 |
| | C-5.8 | स्व. श्री लखीराम अग्रवाल स्मृति स्वर्ण पदक | 45 |
| | C-5.9 | स्व. श्रीमती मरवण देवी अग्रवाल स्मृति स्वर्ण पदक | 46 |
| | C-5.10 | श्रीराम ज्वेलर्स बिलासपुर स्मृति स्वर्ण पदक | 47 |
| | C-5.11 | स्व. श्री बसन्त सिंह स्मृति स्वर्ण पदक | 48 |
| | C-5.12 | स्व. श्रीमती जगदीश रानी एवं श्री कृष्णासेन दुरेजा स्मृति स्वर्ण पदक | 49 |
| | C-5.13 | कु. तृषा गोयल स्मृति स्वर्ण पदक | 50 |
| C-5.14 | स्व. श्री बिसाहू दास महंत स्मृति स्वर्ण पदक | 51 | |
| 8 | C-6 | श्रेणी / ग्रेड सुधार | 52 |
| 9 | C-7 | Convocation | 53 |
| 10 | D | Fee Structure of the Courses | 58 |
| 11 | E-1.0 | Bachelor's Preparatory Programme (B.P.P.) | 59 |

| | | | |
|----|----------|--|-----|
| 12 | E-1.1 | Bachelor of Arts (B.A.) | 61 |
| 13 | E1.2 | Bachelor of Commerce (B.Com.) | 65 |
| 14 | E-1.3 | Bachelor of Science (B.Sc.) | 69 |
| 15 | E-1.4 | Bachelor of Business Administration (B.B.A.) | 73 |
| 16 | E-1.5 | Bachelor of Computer Science (BCA) | 75 |
| 17 | E-1.6 | Bachelor of Library and Information Science (B.Lib. & I.Sc.) | 77 |
| 18 | E-1.7 | Bachelor of Education (Open)/(B.Ed.) | 78 |
| 19 | E-1.8 | शास्त्री उपाधि पाठ्यक्रम | 80 |
| 20 | E-2.1 | Master of Arts (M.A.-English, Hindi, Chhattisgarhi, Sanskrit, Sociology, Political Science, History) | 81 |
| 21 | E-2.2 | Master of Science-Mathematics (M.Sc. - Maths)/Master of Arts mathematics (M.A.- Maths) | 84 |
| 22 | E-2.3 | Master of Business Administration (MBA) | 87 |
| 23 | E-2.4 | Master of Arts in Education | 89 |
| 24 | E-2.5 | Master of Social Work (M.S.W.) | 90 |
| 25 | E-2.6 | Master of Law (L.L.M.) | 93 |
| 26 | E-2.7 | Master of Commerce (M.Com.) | 96 |
| 27 | E-2.8 | Master of Library and Information Science (M.Lib. & I.Sc.) | 98 |
| 28 | E-2.9 | Master of Arts (Psychology) | 99 |
| 29 | E-2.10 | Master of Arts (Yoga) | 102 |
| 30 | E-2.11 | Master of Science (Botany) (M.Sc.Botany) | 105 |
| 31 | E-2.12 | Master of Science (Chemistry) | 108 |
| 32 | E-2.13 | Master of Science (Zoology) | 111 |
| 33 | E-2.14 | Master of Science (Physics) | 114 |
| 34 | E-2.15 | Master of Science (Computer Science) | 117 |
| 35 | E-3.1 | Post Graduate Diploma In Computer Applications (PGDCA) | 120 |
| 36 | E-3.2 | PG Diploma in Yog Science (PGDYS) | 122 |
| 37 | E-3.3 | Post Graduate Diploma in Psychological Guidance and Counselling (PGDGC) | 124 |
| 38 | E-3.4(A) | P.G. Diploma in Marketing Management (PGDMM)/ | 126 |
| | E-3.4(B) | P.G. Diploma in Human Resource Management (PGDHRM)/ | |
| | E-3.4(C) | P.G. Diploma in Hotel Management (PGDHM)/ | |
| | E-3.4(D) | P.G. Diploma in Tourism Management (PGDDTM) | |
| 39 | E-3.5(A) | P.G. Diploma in Journalism and Mass Communication (PGDJMC)/ | 128 |
| | E-3.5(B) | P.G. Diploma in Broadcast Journalism & News Media (PGDBJNM)/ | |
| | E-3.5(C) | P.G. Diploma in Advertising and Public Relation (PGDAAP) | |

| | | | |
|----|----------|---|-----|
| 40 | E-3.6 | Post Graduate Diploma in Labour Law & Labour Welfare (PGDL&LW) | 131 |
| 41 | E-3.7 | छत्तीसगढ़ी भाषा एवं साहित्य में पी.जी. डिप्लोमा | 133 |
| 42 | E-3.8(A) | P.G. Diploma in Cyber Laws (PGDCL) | 135 |
| | E-3.8(B) | P.G. Diploma in Medical Laws (PGDML) | |
| | E-3.8(C) | P.G. Diploma in Labour Laws (PGDLL) | |
| 43 | E-3.9 | Post Graduate Diploma in Constitutional & Administration Law (PGDCAL) | 137 |
| 44 | E-3.10 | P.G. Diploma in Entrepreneurship Development (PGDED) | 139 |
| 45 | E-3.11 | P.G. Diploma in Industrial Relation & Personnel Management (PGDIR&PM) | 141 |
| 46 | E-3.12 | P.G. Diploma in Administrative Law (PGDAL) | 143 |
| 47 | E-4.1 | Diploma in Elementary Education (D.El.Ed.) (open) | 145 |
| 48 | E-4.2 | Diploma in Computer Application (DCA) | 147 |
| 49 | E-4.3 | Diploma in Jyotish and Vashtushastra (DJV) | 149 |
| 50 | E-4.4 | Diploma in Herbal Medicinal Plant, Cultivation Marketing & Management (DMH) | 151 |
| 51 | E-4.5 | Diploma in Ayurved Probohd (DAP) | 153 |
| 52 | E-4.6 | Diploma in Distance Education (DDE) | 155 |
| 53 | E-4.7 | Diploma in Fine Arts (DFA) | 157 |
| 54 | E-4.8 | Diploma in Yog Science (DYS) | 158 |
| 55 | E-4.9 | Diploma in Elementary Language Teaching (D.E.L.T.) | 160 |
| 56 | E-4.10 | Diploma in Journalism and Mass Communication (DJMC) | 161 |
| 57 | E-4.11 | रामचरितमानस में विज्ञान से सामाजिक उत्थान में डिप्लोमा पाठ्यक्रम | 163 |
| 58 | E-5.1 | Skill Based Certification/Diploma Courses | 165 |
| 59 | E-5.2 | Certificate Course in Goods Service Tax | 167 |
| 60 | E-5.3 | Certificate Course in Vedic Mathematics | 168 |
| 61 | F-1 | Repealed Provision | 169 |
| 62 | G | Minimum Qualification for Teaching Posts | 170 |
| | G-1 | Direct Recruitment For Teaching Post | |
| 63 | H | Minimum Qualification for Non-Teaching Class I & II Posts | 171 |
| | H-1 | Non-Teaching (1 st &2 nd class) Direct Recruitment/Promotion/Timescale Rule, 2021 | |
| 64 | I | Selection Committee Procedures | 175 |

E-2.2: Master of Science-Mathematics (M.Sc. - Maths)/Master of Arts-Mathematics (M.A.- Maths)

(Under Section 27 (1) of Chhattisgarh Act No. 26/2004)

1. Programme title: Master of Science in Mathematics/ Master of Arts in Mathematics.

2. Eligibility

1. A candidate who has passed degree Examination of science/Arts faculty with mathematics as a subject shall be eligible for admission.
2. A Student coming from any other place out of Chhattisgarh will have to obtain eligibility certificate from the university.
3. A Student coming from any other place out of Chhattisgarh will have to pay Immigration Fee as decided by the Executive Council of the University, from time to time.

3. Duration of the Programme

Minimum Duration of programme shall be of two years of 72 credits or four semesters consisting of courses at least 32 credits in one year or 16 credits in one semester and maximum duration will be of four years.

4. Structure of the Programme

A flexible choice-based course will be proposed by the Board of Study, and learners have to select courses of 72 credits for the programme.

5. Availability of Programme

M.Sc./M.A. Degree Programme will be available in Mathematics

6. Programme, Design / Contents:

Contents and design of programme will be decided by Board of Studies of Mathematics and Norms decided by UGC will be adopted and followed.

Delivery of the Course

It will comprise of support study material, assignments and Library consultation.

7. Scheme of examination

As per decision of academic council from time to time and provisions given in the ordinance.

7.1 Choice-based Credit System

This programme will offer choice-based credit course for learners in the third year. Learners may opt any one paper from the list given in the admission brochure in lieu of any one course of his/her main subjects. The credit and grade point earned will be accommodated in the marksheet with a remark “CBCS Programme”.

7.2 Accommodation of Online course(s): As per provisions given in the ordinance.

8. Scheme of Valuation of Scripts

As per decision of academic council from time to time.

9. Medium of Instruction/Examination:

It will be in Hindi or English.

10. Provision of “Allowed to keep term” or ATKT:

- a. If result of a learner in previous year is of ATKT. Learner may take admission in final year.
- b. Learner may be allowed to appear in Term-End-Examination of final year, Simultaneously Learner will appear in the examination of ATKT Course of Previous year.
- c. A learner is allowed to appear in the examination of ATKT Course of final year. Learner will be allowed to pass ATKT examinations within Maximum duration as provided in the Ordinance i.e.,four years.
- d. A learner who has not completed programme within maximum time limit (four years) may apply for Re-Registration.

11. Determination of Grade and grade points, as per section C1 of the ordinance.

On the basis of marks/credit obtained in Previous and Final year grade and grade points will be determined as under:

| Description | Grade Point | Range of Marks |
|--------------------|--------------------|-----------------------|
| O (Outstanding) | 10 | 90 & above |
| A+ (Excellent) | 9 | 75 - < 90 |
| A (Very Good) | 8 | 62- < 75 |
| B+ (Good) | 7 | 55- < 62 |
| B (Above average) | 6 | 50- < 55 |
| C (Average) | 5 | 45 - < 50 |
| P (Pass) | 4 | 40 - < 45 |
| F (Fail) | 0 | < 40 |
| Absent | - | |

12. Provision of Grace Marks:

Maximum 05 (five) marks may be given to a learner as Grace Marks as per provisions given in the ordinance.

13. There is provision of Re-assessment of valued answer book / Re-totaling of marks as provided in the Ordinance.



पंडित सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़
कोनी-बिरकोना मार्ग, बिलासपुर (छ.ग.)
दूरभाष : (07752) 240702, 240712, 240752

क्रं. 559 / अका./ वि.प./ बैठक / 2023,

बिलासपुर, दिनांक 15 / 03 / 2023

// अधिसूचना //

पंडित सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर के विद्यापरिषद् की 41 वीं आपात बैठक दिनांक 15/03/2023, दिन बुधवार प्रातः 11:30 बजे विश्वविद्यालय मुख्यालय सिरपुर प्रशासनिक भवन में प्रत्यक्ष उपस्थिति/विडियो कॉन्फ्रेंसिंग के माध्यम से आयोजित हुई। बैठक में निम्नानुसार उपस्थिति रही (क्रमांक 2, 3 एवं 4 के सदस्य विडियो कॉन्फ्रेंसिंग के माध्यम से भाग लिए) :-

1. डॉ. बंश गोपाल सिंह — अध्यक्ष
कुलपति
पंडित सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर
2. प्रो. एल.पी. पटैरिया, (विडियो कॉन्फ्रेंसिंग द्वारा उपस्थिति) — सदस्य
माननीय कुलपति, शहीद नंदकुमार पटेल विश्वविद्यालय, रायगढ़
(विश्वविद्यालय कार्यपरिषद् द्वारा नाम निर्दिष्ट)
3. डॉ. एच.पी. खैरवार, (विडियो कॉन्फ्रेंसिंग द्वारा उपस्थिति) — सदस्य
संचालक
छत्तीसगढ़ राज्य हिन्दी ग्रंथ अकादमी, रायपुर (छ.ग.)
4. डॉ. राजलक्ष्मी सेलट, (विडियो कॉन्फ्रेंसिंग द्वारा उपस्थिति) — सदस्य
आयुक्त के नामिनी
उच्च शिक्षा संचालनालय, नया रायपुर (छ.ग.)
5. प्रो. मीता झा, — सदस्य
पण्डित रविशंकर शुक्ल विश्वविद्यालय, रायपुर
(विश्वविद्यालय कार्यपरिषद् द्वारा नामांकित)
6. प्रो. एच.एस. होता, — सदस्य
प्राध्यापक,
अटल बिहारी वाजपेयी विश्वविद्यालय बिलासपुर
7. प्रो. शोभित कुमार बाजपेयी, — सदस्य
क्षेत्रीय निदेशक
पंडित सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर
8. डॉ. बीना सिंह, — सदस्य
अध्यक्ष, अध्ययन मण्डल, शिक्षा विभाग,
पं. सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर

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| 9. | डॉ. प्रकृति जेम्स, सहायक प्राध्यापक शिक्षा विभाग, पं. सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर | — सदस्य |
| 10. | डॉ. प्रीती रानी मिश्रा, अध्यक्ष, अध्ययन मण्डल, ग्रंथालय एवं सूचना विभाग, पं. सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर | — सदस्य |
| 11. | डॉ. पुष्कर दुबे, अध्यक्ष, अध्ययन मण्डल, प्रबंधन, पं. सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर | — सदस्य |
| 12. | डॉ. इंदु अनंत, कुलसचिव, पं. सुन्दरलाल शर्मा (मुक्त) विश्वविद्यालय छत्तीसगढ़, बिलासपुर | — सचिव |

निम्न सदस्य बैठक में प्रत्यक्ष या विडियो कॉन्फ्रेंसिंग के माध्यम से उपस्थित नहीं हो सके—

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| 1. | प्रो. सुबोध केशरवानी, स्कूल ऑफ मैनेजमेंट स्टडीज, इंदिरा गांधी राष्ट्रीय मुक्त विश्वविद्यालय मैदान गढ़ी, नई दिल्ली (कुलपति इग्नू द्वारा नामांकित) | — सदस्य |
|----|---|---------|

अध्यक्ष महोदय के द्वारा उपस्थित सदस्यों का स्वागत किया गया तत्पश्चात् सचिव के द्वारा अध्यक्ष महोदय की अनुमति से निम्नानुसार प्रस्ताव विचार हेतु रख कर निर्णय लिया गया —

प्रस्ताव क्र. 01 — विश्वविद्यालय विषयों के अध्ययन मण्डलों की संयुक्त बैठक एवं अन्य अध्ययन मण्डल के बैठकों के कार्यवाही-विवरण के अनुमोदन पर विचार।

निर्णय — अध्ययन मण्डलों की संयुक्त बैठक एवं अन्य अध्ययन मण्डल के बैठकों के कार्यवाही-विवरण के अनुशांसा का अनुमोदन किया गया एवं संयुक्त अध्ययन मण्डल बैठक के प्रस्ताव क्रमांक 02 की कंडिका 36 में PG Diploma in Marketing Management, PG Diploma in Human Resource Management, PG Diploma in Tourism Management & PG Diploma in Hotel Management का पूरा नाम लिखते हुये सर्वसम्मति से अनुमोदित किया गया।

कार्यवाही — अकादमी विभाग

प्रस्ताव क्र. 02 — विश्वविद्यालय अध्यादेश क्रमांक —1 Part-E में संशोधन पर विचार।

निर्णय — विश्वविद्यालय अध्यादेश क्रमांक —1 Part-E में निम्न संशोधनो के साथ अनुमोदन मान्य किया गया।

- i. उक्त संशोधन अध्यादेश क्रमांक — 1 Part-E के सभी खण्डों में लागू होगा।
- ii. Course Title के स्थान पर Programme Title किया जाय।
- iii. Duration — P.G. Diploma Programme की अवधि एक वर्ष के स्थान पर दो वर्ष की जाय।

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iv. Credit – U.G. में 108 – 120, P.G. में 72 – 80, P.G. Diploma Programme में 80 Credit किया जाय।
यह भी की अध्यादेश क्रमांक –1 Part-E में वर्तनी एवं टंकण संबंधित त्रुटियों को सुधार कर अनुमोदित किया गया।

कार्यवाही – अकादमी विभाग

प्रस्ताव क्र. 03 – अकादमिक वर्ष 2023–2024 के लिये प्रस्तावित पाठ्यक्रमों के PPR एवं SLM के अनुमोदन पर विचार।

निर्णय – अकादमिक वर्ष 2023–2024 के लिये प्रस्तावित निम्नलिखित पाठ्यक्रमों के PPR एवं SLM का अनुमोदन किया गया।

| Sr. No. | Name of Programme |
|---------|--|
| 1 | BACHELOR OF ARTS (BA) |
| 2 | BACHELOR OF BUSINESS ADMINISTRATION (BBA) |
| 3 | BACHELOR OF COMMERCE (B.COM.) |
| 4 | BACHELOR OF EDUCATION (B.ED.) |
| 5 | BACHELOR OF LIBRARY AND INFORMATION SCIENCE (B.LIB.) |
| 6 | BACHELOR OF SCIENCE (BIOLOGY) |
| 7 | BACHELOR OF SCIENCE (MATHEMATICS) |
| 8 | MASTER OF ARTS (MATHEMATICS) |
| 9 | MASTER OF ARTS (POLITICAL SCIENCE) |
| 10 | MASTER OF ARTS (SOCIOLOGY) |
| 11 | MASTER OF ARTS (ENGLISH) |
| 12 | MASTER OF ARTS (HINDI) |
| 13 | MASTER OF ARTS (SANSKRIT) |
| 14 | MASTER OF ARTS (CHHATTISGARHI) |
| 15 | MASTER OF ARTS IN EDUCATION |
| 16 | MASTER OF ARTS (PSYCHOLOGY) |
| 17 | MASTER OF ARTS (HISTORY) |
| 18 | MASTER OF COMMERCE (M.COM.) |
| 19 | MASTER OF SCIENCE (BOTANY) |
| 20 | MASTER OF SCIENCE (ZOOLOGY) |
| 21 | MASTER OF SCIENCE (CHEMISTRY) |

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|----|--|
| 22 | MASTER OF SCIENCE (PHYSICS) |
| 23 | MASTER OF SCIENCE (MATHEMATICS) |
| 24 | MASTER OF SOCIAL WORK (M.S.W.) |
| 25 | MASTER OF BUSINESS ADMINISTRATION (MBA) |
| 26 | MASTER OF SCIENCE (COMPUTER SCIENCE) |
| 27 | MASTER OF LIBRARY AND INFORMATION SCIENCE (M.LIB.) |
| 28 | POST GRADUATE DIPLOMA IN CYBER LAW |
| 29 | POST GRADUATE DIPLOMA IN LABOUR LAW AND LABOUR WELFARE |
| 30 | DIPLOMA IN RURAL DEVELOPMENT |
| 31 | DIPLOMA IN COMPUTER APPLICATION (DCA) |
| 32 | DIPLOMA IN ELEMENTARY EDUCATION (D.ELED.) |
| 33 | DIPLOMA IN YOG SCIENCE |
| 34 | CERTIFICATE IN GST |

कार्यवाही – अकादमी विभाग

प्रस्ताव क्र. 04 – अकादमिक वर्ष 2023–2024 के लिये प्रस्तावित नवीन स्नातकोत्तर एवं डिप्लोमा पाठ्यक्रमों को प्रारंभ करने पर विचार।

निर्णय – अकादमिक वर्ष 2023–2024 के लिये प्रस्तावित स्नातकोत्तर एवं डिप्लोमा पाठ्यक्रमों की समीक्षा की गई। जिन विषयों का अनुमोदन विधिवत किया जा चुका है, उस पर कार्यवाही की जाय। शेष नवीन पाठ्यक्रमों की प्रक्रिया पूर्ण कर ली जाय।

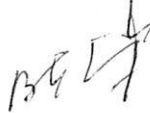
कार्यवाही – अकादमी विभाग

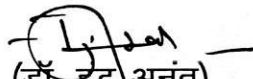
प्रस्ताव क्र. 05 – अकादमिक वर्ष 2023–2024 के लिये एक वर्षीय पी.जी. डिप्लोमा की जगह दो वर्षीय पी.जी. डिप्लोमा पाठ्यक्रम चलाये जाने पर विचार।

निर्णय – UGC के निर्देशों का परिपालन कर प्रक्रिया पूर्ण कराई जाय।

कार्यवाही – अकादमी विभाग

अध्यक्ष को धन्यवाद ज्ञापित करने के साथ बैठक समाप्त हुई।


(बंश गोपाल सिंह)
कुलपति/अध्यक्ष


(डॉ. इंदु अनंत)
कुलसचिव/सचिव

प्रतिलिपि -

1. माननीय राज्यपाल एवं कुलाधिपति के सचिव, राजभवन, रायपुर (छ.ग.)
2. सम्मानीय सदस्यगण -
 - 2.1 आयुक्त, उच्च शिक्षा संचालनालय, इन्द्रावती भवन, खण्ड सी-3, नया रायपुर (छ.ग.)
 - 2.2 संचालक, छ.ग. राज्य हिन्दी ग्रंथ अकादमी, रायपुर (छ.ग.)
 - 2.3 प्रो. एल.पी.पटेरिया, माननीय कुलपति, शहीद नंदकुमार पटेल विश्वविद्यालय रायगढ़ (छ.ग.)
 - 2.4 प्रो. सुबोध केशरवानी, स्कूल ऑफ मैनेजमेंट स्टडीज, इंदिरा गांधी राष्ट्रीय मुक्त विश्वविद्यालय, मैदान गढ़ी, नई दिल्ली।
 - 2.5 प्रो. एच.एस. होता, प्राध्यापक, अटल बिहारी वाजपेयी विश्वविद्यालय बिलासपुर।
 - 2.6 प्रो. मीता झा, मनोविज्ञान विभाग, पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)
 - 2.7 प्रो. शोभित कुमार बाजपेयी, क्षेत्रीय निदेशक, PSSOU
 - 2.8 डॉ. बीना सिंह, सहायक प्राध्यापक एवं विभागाध्यक्ष शिक्षा विभाग, PSSOU
 - 2.9 डॉ. प्रकृति जेम्स, सहायक प्राध्यापक शिक्षा विभाग, PSSOU
 - 2.10 डॉ. प्रीती रानी मिश्रा, सहायक प्राध्यापक एवं विभागाध्यक्ष ग्रंथालय एवं सूचना विभाग, PSSOU
 - 2.11 डॉ. पुष्कर दुबे, सहायक प्राध्यापक एवं विभागाध्यक्ष प्रबंधन विभाग, PSSOU की ओर सूचनार्थ।
3. निज सचिव कुलपति एवं निज सहायक कुलसचिव को माननीय कुलपति/कुलसचिव के सूचनार्थ।
4. प्रभारी, अकादमी विभाग। कार्यवाही-विवरण की प्रति संलग्न कर इस निर्देश के साथ प्रेषित कि विद्यापरिषद् में लिये गये निर्णयों पर पालन-प्रतिवेदन शीघ्र अधोहस्ताक्षरकर्त्ता को प्रस्तुत करें।
5. नस्ती हेतु।


कुलसचिव

अध्ययन मंडल गणित विभाग की वेब (संयुक्त वेबसाइट 10/3/23)

आज दिनांक 10/3/23 प्रातः 11:30 बजे दिनांक
प्रशासनिक अथवा शिक्षण कार्यक्रमों के लिए
अध्ययन मंडल की वेब साइटों पर | वेब में निर्धारित
आवृत्त रहे -

1. डॉ. शोभिता कुमारी
प्रधानाचार्य अध्ययन शोभिता कुमारी
10/3/23
2. डॉ. मू. के. श्रीवास्तव
प्रधानाचार्य गणित प्रधान u h t
10/3/23
शाला ई रा. रा. पदो विद्यालय
3. डॉ. प्रेमलता वर्मा
प्रधानाचार्य गणित प्रधान 10/3/23
शाला विद्यालय अथवा पदो विद्यालय
4. डॉ. अनिलकुमार प्रधान sh
5. डॉ. युष्मत् उर्फ प्रधान 10/3/23

वेब की कार्यवाही

1. गणित विभाग के अंतर्गत BSc (गणित) तथा MA/MSc (गणित) के लिए PPR का अनुमोदन पर विचार
2. संसदीय अध्यादेश के संदर्भित पार्ट में संशोधन पर विचार
3. अध्ययन की अनुमति से अध्ययन

निर्णय

1. संदर्भित ले. BSc (गणित) एवं MA (गणित) / MSc (गणित) के PPR का अनुमोदन प्राप्त करना
2. अध्यादेश के संदर्भित पार्ट में संशोधन का अनुमोदन प्राप्त करना

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PANDIT SUNDARLAL SHARMA (OPEN) UNIVERSITY CHHATTISGARH

PROGRAMME PROJECT REPORT (PPR)

M.Sc. [MATHEMATICS]

- a) **Programme Mission and Objective:** Master of Science [Mathematics] is designed through distance mode to promote the scientific temperament of the learners in higher education by providing easy access to all those learners to improve their qualification, skills and competence. The education in M.Sc. [Mathematics] will be theoretical so that learners will be prepared for a Mathematician as a career for industry and entrepreneurship. Following are the broader objectives of the programme:
- i. To educate and create the prospective and diverse group of learners of Chhattisgarh with knowledge, analytical ability and importance of
 - ii. Mathematics and skills needed to provide leadership to society.
 - iii. The learner will be taught about the importance of Mathematics in day to day life.
 - iv. To be prepared for a lifelong career with primary processing acquiring the skills and experience to undertake appropriate research and study of Mathematics.
 - v. To make the learners aware of changing environment and scope, in the field of Mathematics to operate in a competitive environment.
 - vi. To seek continuous improvement in individual learning skills and personal development and to work with confident self-direction and originality so as to make a meaningful contribution to society.
- b) **Relevance of the Program with HEI's Mission and Goals:** Pandit Sundarlal Sharma (Open) University Chhattisgarh is committed to endow with assure quality of scientific education to tribal area of learner where regular form of education cannot reach. In the line of the mission of the University, this programme will provide ample of opportunities to those rural and backward learners who are deprived of Maths science education and cannot find a place in regular education system. Apart from that it is also open to those who wish to continue their learning irrespective of their rural background and economically poor families.
- c) **Nature of Prospective Target Group of Learners:** The prospective learners can be graduates of science faculty (with mathematics as a subject), who wishes to pursue their career in the field of mathematics.

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d) **Appropriateness of programme to be conducted in Open and Distance Learning mode to acquire specific skills and competence:** Master of Science [Mathematics] is one of the suitable course/programme to be offered through Open and Distance Learning mode. Theoretical mode can be well acquired through the distance learning mode.

e) **Instructional Design :**

- i. **Duration and Credit:** This programme has a duration of two years although learner may complete the programme gradually within a maximum period of four years. The programme has weightage of 72 credits. Contact sessions for every course will be arranged at the study centre where the learners can solve their difficulties.
- ii. **Medium:** The course material for M.Sc. programme will be in Hindi/English language. However, learners can opt for both English and Hindi language for answering the questions.
- iii. **Course Structure:**

**MASTER OF SCIENCE [Mathematics]
DURATION OF THE COURSE: 2 YEARS
ELIGIBILITY: SCIENCE GRADUATE (with mathematics as a subject)**

COURSE SYLLABUS

Fundamental course

| CURRICULUM TITLE | PAPER | YEAR | CREDIT |
|---|--------|-------------|--------|
| Topology | First | First year | 8 |
| Real analysis | Second | First year | 8 |
| Partial differential Equation | Third | First year | 8 |
| Discrete Mathematics | Fourth | First year | 8 |
| Operational Research | First | Second year | 8 |
| Complex Analysis | Second | Second year | 8 |
| Mathematical Statistics | Third | Second year | 8 |
| Object Oriented Programming with C++ | Fourth | Second year | 8 |
| Advance Discrete Mathematics / Dissertation | | Second year | 8 |
| Total | | | 72 |

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- iv. **Dissertation:** Dissertation is an optional course which learners have to undertake provided that:
- A Learner obtains 62% or above in previous year examination.
 - The dissertation can only be undertaken at University Head Quarter under the supervision of Full Time Faculty or as decided by department concern.
 - Dissertation shall be of 100 marks, the evaluation of which is based on 70:30 ratio (70% for Project Submission and 30% for Viva-Voce).
- v. **Learning Method:** The learning method developed by University will comprise of independent form of delivery and will constitute the following components:
- Self-Instructional text books (Self Learning Materials).
 - Counselling and contact sessions at the study centre by the subject experts.
 - Preparing the learners Assignment.
- vi. **Means of Delivery:** The learners are given the syllabus of the courses and also the Self learning material. It helps the learners to study a specific topic. If the learner has any difficulty, he or she can make a note of it. They can discuss these noted difficulties with the counsellor during the contact session at the study centre.
- vii. **Requirement of Faculty and Support Staff:** Faculty of science is headed by permanent faculty member. Supporting staffs will be deputed at the study centre as per need of the course curriculum.
- f) **Procedure for admissions, curriculum transaction and evaluation:**
- Procedure of Admission:** The admission for this programme will be on yearly basis (or as decided by the University from time to time). All the admissions for the course will be done through online mode. Applications will be invited by the University with in stipulated time period where learners have to apply for the same with all their testimonials and required fees. The minimum eligibility for admission into this programme for the candidates is having passed degree examination of Science faculty (with mathematics as a subject) of Chhattisgarh Higher Education, or from any other equivalent recognised Board or University.
 - Curriculum Transaction:** For successful completion of the proposed programme, a candidate has to obtain minimum passing marks of 40%. Degree will be awarded on the basis of aggregate marks obtained in 1st and 2nd year. Passing in all the years will be an essential criterion for the award of degree.
 - Evaluation Pattern:** The pattern of evaluation for each course from year I to year II of M.Sc.[Mathematics] programme will have following two components: (a) Continuous Assessment through TMA (b) Dissertation c) Term End Examination (TEE).

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- a) **Continuous Assessment through Tutor Mark Assignment:** For each course in every year the learner's performance will be continuously evaluated. Continuous assessment schedule and evaluation will be done by the Study Centre which will be monitored by the department concern. The learners have to submit Tutor Mark Assignment (TMA) carrying 30 marks before the Term end examination (TEE) which will be the base of evaluation.
- b) **Dissertation:** Evaluation of this component will be based on dissertation submitted by the learners with viva-voce. Viva-voce will be conducted in the presence of an external examiner.
- c) **Term End Examination (TEE):** Term End Examination (TEE) will be conducted at the end of the learning period through an examination as like other universities. Term End examination (TEE) of each course will be of 70 marks and will be on subjective mode. The questions in the examination will comprise of very short type answer, brief answers and long type answers. The structure of the examination is as under:

| Section | Total No. Of Questions | Type of Questions | Marks |
|---------|------------------------------|-------------------|-----------|
| A | 8 (All Compulsory Questions) | Objective Type | 1X8=8 |
| B | 6 (4 Should be answered) | Very Short Type | 2.5X 4=10 |
| C | 4 (3 Should be answered) | Short Type | 5X3=15 |
| D | 4 (2 Should be answered) | Semi Long Type | 10X2=20 |
| E | 2 (1 Should be answered) | Long Type | 17X1=17 |
| TOTAL | 24 (18 Should be answered) | | 70 Marks |

- d) **University Fee Structure:** The fee structure of the M.Sc. programme is as under:

Details of University Fee (In Rupees)

| Particulars | Year I | Year II | Total |
|-------------|--------|---------|-------|
| Yearly Fees | 7100 | 7100 | 14200 |

- g) **Requirement of the laboratory support and Library Resources:** Laboratory is not required for this course. Resources in the form of reference books and Journals will be made available to the learners in the University Central library, which they can access for gaining knowledge.
- h) **Cost estimate of the programme and the provisions:** For the design, development delivery and maintenance of the programme the fund will be as per the budget allocated by the University in its Annual Budget session.
- i) **Quality assurance mechanism and expected programme outcomes:** The monitoring of the programme will be done on continuous basis by the department concern. Regular updating of the curriculum and syllabus will be checked by the concerned board of studies and regular monitoring will be done by Centre for Internal Quality Assurance (CIQA) of

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the University. Learners will be asked to provide their feedback on continuous basis to develop suitable action plans for the programme and will be duly incorporated into the teaching and delivery system.

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PROGRAMME PROJECT REPORT (PPR)

M.A. [MATHEMATICS]

- a) **Programme Mission and Objective:** M.A. [Mathematics] is designed through distance mode to promote the scientific temperament of the learners in higher education by providing easy access to all those learners to improve their qualification, skills and competence. The education in M.A. [Mathematics] will be theoretical so that learners will be prepared for a Mathematician as a career for industry and entrepreneurship. Following are the broader objectives of the programme:
- To educate and create the prospective and diverse group of learners of Chhattisgarh with knowledge, analytical ability and importance of Mathematics.
 - The learner will be taught about the scope of Mathematics in day to day life.
 - To be prepared for a lifelong career with primary processing acquiring the skills and experience to undertake appropriate research and study of Mathematics.
 - To make the learners aware of changing environment and scope, in the field of Mathematics to operate in a competitive environment.
 - To seek continuous improvement in individual learning skills and personal development and to work with confident self-direction and originality so as to make a meaningful contribution to society.
- b) **Relevance of the Program with HEI's Mission and Goals:** Pandit Sundarlal Sharma (Open) University Chhattisgarh is committed to endow with assure quality of scientific education to tribal area of learner where regular form of education cannot reach. In the line of the mission of the University, this programme will provide ample of opportunities to those rural and backward learner who are deprived of Maths education and cannot find a place in regular education system. Apart from that it is also open to those who wish to continue their learning irrespective of their rural background and economically poor families.
- c) **Nature of Prospective Target Group of Learners:** The prospective learners can be graduates of arts faculty (with mathematics as a subject), who wishes to pursue their career in the field of mathematics.
- d) **Appropriateness of programme to be conducted in Open and Distance Learning mode to acquire specific skills and competence :** M.A. [Mathematics] is one of the suitable course/programme to be offered through Open and Distance Learning mode. The theory

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Page 1 of 4
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and practical knowledge can be thoroughly captured by the learners to acquire the capability.

e) **Instructional Design :**

- i. Duration and Credit: This programme has a duration of two years although learner may complete the programme gradually within a maximum period of four years. The programme has weightage of 72 credits. Contact sessions for every course will be arranged at the study centre where the learners can solve their difficulties.
- ii. Medium: The course material for M.A. programme will be in Hindi language. However learners can opt for both English and Hindi language for answering the questions.
- iii. Course Structure:

**M.A. [Mathematics]
DURATION OF THE COURSE: 2 YEARS**

ELIGIBILITY: ARTS GRADUATE (with mathematics as a subject)

COURSE SYLLABUS

Fundamental course

| CURRICULUM TITLE | PAPER | YEAR | CREDIT |
|---|--------|-------------|--------|
| Topology | First | First year | 8 |
| Real analysis | Second | First year | 8 |
| Partial differential Equation | Third | First year | 8 |
| Discrete Mathematics | Fourth | First year | 8 |
| Operational Research | First | Second year | 8 |
| Complex Analysis | Second | Second year | 8 |
| Mathematical Statistics | Third | Second year | 8 |
| Object Oriented Programming with C++ | Fourth | Second year | 8 |
| Advance Discrete Mathematics / Dissertation | | Second year | 8 |
| Total | | | 72 |

iv. **Dissertation:** Dissertation is an optional course which learners have to undertake provided that:

- a. A Learner obtains 62% or above in previous year examination.

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- b. The dissertation can only be undertaken at University Head Quarter under the supervision of Full Time Faculty or as decided by department concern.
- c. Dissertation shall be of 100 marks, the evaluation of which is based on 70:30 ratio (70% for Project Submission and 30% for Viva-Voce).
- v. **Learning Method:** The learning method developed by University will comprise of independent form of delivery and will constitute the following components:
- Self-Instructional text books (Self Learning Materials).
 - Counselling and contact sessions at the study centre by the subject experts.
 - Preparing the learners Assignment.
- vi. **Means of Delivery:** The learners are given the syllabus of the courses and also the Self learning material. It helps the learners to study a specific topic. If the learner has any difficulty, he or she can make a note of it. They can discuss these noted difficulties with the counsellor during the contact session at the study centre.
- vii. **Requirement of Faculty and Support Staff:** Department of Mathematics is headed by in-charge faculty (permanent nature). Supporting staffs will be deputed at the study centre as per need of the course curriculum.
- f) **Procedure for admissions, curriculum transaction and evaluation :**
- Procedure of Admission:** The admission for this programme will be on yearly basis (or as decided by the University from time to time). All the admissions for the course will be done through online mode. Applications will be invited by the University with in stipulated time period where learners have to apply for the same with all their testimonials and required fees. The minimum eligibility for admission into this programme for the candidates is having passed degree examination of arts faculty (with mathematics as a subject) of Chhattisgarh Higher Education, or any other equivalent examination of a Board or University recognized by Pandit Sundarlal Sharma (open) University Chhattisgarh.
 - Curriculum Transaction:** For successful completion of the proposed programme, a candidate has to obtain minimum pass marks of 40%. Degree will be awarded on the basis of aggregate marks obtained in 1st and 2nd year. Passing in all the years will be an essential criteria for the award of degree.
 - Evaluation Pattern:** The pattern of evaluation for each course from year I to year II of M.A.[Mathematics] programme will have following two components : (a) Continuous Assessment through TMA (b) Dissertation c) Term End Examination (TEE).
 - Continuous Assessment through Tutor Mark Assignment:** For each course in every year the learners performance will be continuously evaluated. Continuous

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Page 3 of 4

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assessment schedule and evaluation will be done by the Study Centre which will be monitored by the department concern. The learners have to submit Tutor Mark Assignment (TMA) carrying 30 marks before the Term end examination (TEE) which will be the base of evaluation.

- b) **Dissertation:** Evaluation of this component will be based on dissertation submitted by the learners with viva-voce. Viva-voce will be conducted in the presence of an external examiner.
- c) **Term End Examination (TEE):** Term End Examination (TEE) will be conducted at the end of the learning period through an examination as like other universities. Term End examination (TEE) of each course will be of 70 marks and will be on subjective mode. The questions in the examination will comprise of very short type answer, brief answers and long type answers. The structure of the examination is as under:

| Section | Total No. Of Questions | Type of Questions | Marks |
|---------|------------------------------|-------------------|-----------|
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| C | 4 (3 Should be answered) | Short Type | 5X3=15 |
| D | 4 (2 Should be answered) | Semi Long Type | 10X2=20 |
| E | 2 (1 Should be answered) | Long Type | 17X1=17 |
| TOTAL | 24 (18 Should be answered) | | 70 Marks |

- d) **University Fee Structure:** The fee structure of the M.A. programme is as under:

Details of University Fee (In Rupees)

| Particulars | Year I | Year II | Total |
|-------------|--------|---------|-------|
| Yearly Fees | 7100 | 7100 | 14200 |

- g) **Requirement of the laboratory support and Library Resources:** Laboratory is not required for this course. Resources in the form of reference books and Journals will be made available to the learners in the University Central library, which they can access for gaining knowledge.
- h) **Cost estimate of the programme and the provisions:** For the design, development delivery and maintenance of the programme the fund will be as per the budget allocated by the University in its Annual Budget session.
- i) **Quality assurance mechanism and expected programme outcomes:** The monitoring of the programme will be done on continuous basis by the department concern. Regular updating of the curriculum and syllabus will be checked by the concerned board of studies and regular monitoring will be done by Centre for Internal Quality Assurance (CIQA) of the University. Learners will be asked to provide their feedback on continuous basis to develop suitable action plans for the programme and will be duly incorporated into the teaching and delivery system.

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Pandit Sundarlal Sharma (Open) University Chhattisgarh

Accredited A+ by NAAC, Bengaluru

Koni- Birkona Road, PO- Birkona, Dist- Bilaspur- 495009



| Name of the Programme: Master of Science/Arts (MATHEMATICS) | | | | |
|---|----------------------------|---------------------|-----------------------|--|
| Total No. of Full Time Dedicated Faculty: 03 | | | | |
| S. No. | Name of Faculty | Designation | Highest Qualification | Email & Contact no. |
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