सत्र - 2021-22

एम. ए. प्रथम सेमेस्टर - हिंदी

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प्राचीन काव्य - द्वितीय प्रश्नपत्र

विद्यापति पदावली - सं. रामवृक्ष बेनीपुरी → [illegible]
प्रारम्भिक २० पद

अक्टूबर 2021 → व्यक्तित्व - कृतित्व, भक्तिभावना, शृंगार वर्णन, प्रकृति चित्रण, सौंदर्य चित्रण, गीत पद्धति, काव्यकला अंलकार योजना, भाषा, संस्कृत साहित्य प्रभाव

नवम्बर 2021 → विद्यापति के पदों की व्याख्या

दिसम्बर 2021 → भूतपाठ → अमीर खुसरो, रसखान, मीराबाई, रैदास, रहीम

जनवरी 2022 → आलोचनात्मक, लघुउत्तरीय, अतिलघुउत्तरीय प्रश्न / पुनरावृत्ति

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जशुक्ल

सत्र - 2021-22

एम. ए. द्वितीय सेमेस्टर - हिंदी

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मध्यकालीन काव्य - प्रसंग - द्वितीय

फरवरी - मार्च — तुलसीदास :- व्यक्तित्व एवं कृतित्व, भक्तिभावना, महाकाव्यत्व, लोक-जीवन एवं संस्कृति, काव्यकला, लोकनायकत्व, दार्शनिकता, गीतितत्व, भाषाशैली, अलंकार योजना।

अप्रैल - तुलसीदास → रामचरितमानस का सुंदरकांड पूर्ण → व्याख्या

मई — द्रुतपाठ → घनानंद, केशवदास, देव, भूषण और पद्माकर

आलोचनात्मक, वस्तुनिष्ठ एवं लघुउत्तरीय प्रश्न।

Teacher's Signature.....

सत्र - 2021-22

एम. ए. तृतीय सेमेस्टर - हिंदी

भारतीय साहित्य - प्रश्नपत्र

अक्टूबर / नवम्बर 20य → भारतीय साहित्य का स्वरूप, भारतीय साहित्य के अध्ययन की समस्याएँ, भारतीय साहित्य में आज के भारत का बिम्ब।

दिसम्बर 20य → भारतीयता का समाजशास्त्र
हिंदी साहित्य में भारतीय मूल्यों की अभिव्यक्ति

जनवरी 20य → पाठ्यक्रम से संबंधित आलोचनात्मक प्रश्न एवं वस्तुनिष्ठ प्रश्न / पुनरावृत्ति

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Teacher's Signature.....

सत्र - 2021-22

एम. ए. चतुर्थ सेमेस्टर - हिंदी

लोकसाहित्य एवं छत्तीसगढ़ी साहित्य - प्रश्नपत्र IV

इकाई - छत्तीसगढ़ी साहित्य का इतिहास, प्रवृत्तियाँ,
मार्ग → छत्तीसगढ़ी गद्य साहित्य का उद्भव और विकास,
विधाएँ → उपन्यास, नाटक, एकांकी, निबंध,
कहानी, महाकाव्य।

अथवा - दान-लीला → सुंदरलाल शर्मा

मई → लघूत्तरीय एवं अतिलघूत्तरीय
वस्तुनिष्ठ प्रश्न।

—x—

Teacher's Signature.....

सत्र - 2021-22

बी.ए. अंतिम - हिंदी साहित्य

द्वितीय प्रश्न का

हिंदी भाषा साहित्य का इतिहास तथा काव्यांग विवेचन- माह के अनुरूप पाठ्यक्रम विवरण :-

नवम्बर २०२१ हिंदी भाषा का उद्भव और विकास, हिंदी की मूल आकार भाषाएँ तथा विभिन्न विभाषाओं का विकास।
हिंदी भाषा के विभिन्न रूप - बोलचाल की भाषा, रचनात्मक भाषा, राष्ट्रभाषा, राजभाषा, सम्पर्क भाषा, संचार भाषा।

दिसम्बर २०२१ → तत्सम, तद्भव, देशज, आगत शब्दावली
हिंदी साहित्य का इतिहास → आदिकाल पूर्व मध्यकाल, उत्तरमध्यकाल, आधुनिक काल।

जनवरी २०२२ → काव्यांग → काव्य का स्वरूप और प्रयोजन → रस के अंग, रस के भेद
प्रमुख छंद, दोहा, सोरठा, चौपाई, कुंडलियाँ, सवैया।

फरवरी २०२२ शब्दालंकार → अनुप्रास, यमक, श्लेष, वक्रोक्ति, पुनरुक्तिप्रकाश,
अर्थालंकार → उपमा, रूपक, उत्प्रेक्षा अतिशयोक्ति, मानवीकरण अलंकार।
समस्त पाठ्यक्रम से लघुउत्तरीय, अति-लघुउत्तरीय प्रश्न एवं आलोचनात्मक प्रश्न।

शुभकामनाएँ

Teacher's Signature.....

सत्र - 2021-22

बी.ए. अंतिम - हिंदी साहित्य

जनपदीय भाषा साहित्य - प्रथम प्रश्नपत्र

छत्तीसगढ़ी भाषा साहित्य →

अक्टूबर अ- छत्तीसगढ़ी साहित्य की विकास यात्रा
ब- छत्तीसगढ़ी भाषा : एक परिचय

नवम्बर संत धर्मदास के पद (कविता)

दिसंबर लखनलाल गुप्त - सोनपान (निबंध)
सत्यभामा आडिल - सीख-सीख के गोठ

जनवरी २०२२ डॉ. विनय कुमार पाठक → कविताएँ
मुकुंद कौशल → छत्तीसगढ़ी गजल

फरवरी २०२२ हुतपाठ → लुंदरलाल शर्मा
रामचंद्र देशमुख
कपिलनाथ कश्यप

—×—

शुभकामनाएँ

Teacher's Signature.....

डॉ. जयश्री शुक्ला
प्राध्यापक हिंदी

अगस्त 2021

दिनांक	एम.ए. द्वितीय सेमेस्टर	एम.ए. चतुर्थ सेमेस्टर	टिप्पणी
3.08.21	मध्यकालीन काव्य की विशेषताएँ	छत्तीसगढ़ी का उद्भव	रविवार
4.08.21	तुलसीदासजी का जीवन परिचय	छत्तीसगढ़ी का विकास	1,8,15
5.08.21	उनके कृतित्व की जानकारी	छत्तीसगढ़ी साहि. का इति.	22,29 अगस्त
6.08.21	काव्य सौष्ठव	छत्तीसगढ़ी साहि. का इति.	विश्व आदि.
7.08.21	भाव पक्ष	छत्तीसगढ़ी साहि. का इति.	वासी दिवस
10.08.21	कला पक्ष	छत्तीसगढ़ी गद्य साहित्य	09 अगस्त
11.08.21	कला पक्ष	कथा साहित्य का उद्भव	
12.08.21	तुलसी की भक्ति भावना	उद्भव	मोहर्रम
13.08.21	तुलसी की नवधा भक्ति	छ.गढ़ी साहित्य-विकास	20 अगस्त
14.08.21	तुलसी का लोकनायकत्व	छ.गढ़ी साहित्य विकास	
16.08.21	समन्वय का अर्थ	छगढ़ी साहि. का प्र. स्वरूप	कृष्ण जन्मा
17.08.21	तुलसी का दर्शन	गाथा युग	ष्टमी
18.08.21	रामचरित मानस का प्रतिपाद्य	भक्ति युग	30 अगस्त
19.08.21	तत्कालीन परि. में रचना की महत्ता	आधुनिक युग	
21.08.21	मनोवैज्ञानिक चित्रण	आधुनिक युग	आक. अव.
23.08.21	आंतरिक मूल्यांकन कार्य	आंतरिक मूल्यांकन कार्य	02 अगस्त
24.08.21	आंतरिक मूल्यांकन कार्य	आंतरिक मूल्यांकन कार्य	
25.08.21	सुंदरकांड से संबंधित जानकारी	उपन्यास - उद्भव, विकास	
26	सुंदरकांड की कथा	रचनाकार - रचनाएं	
27	सुंदरकांड की विशेषताएँ	नाटक उद्भव-विकास	
28	सुंदरकांड की व्याख्या - 5 पद	नाटककार - रचनाएं	
31	सुंदरकांड की व्याख्या 5 पद	एकांकी उद्भव-विकास	
	22	22	

इस माह का पाठ्यक्रम पूर्ण

जशुक्ला
प्राध्यापक

Teacher's Signature........

प्राचार्य
Principal
Govt. J.P. Verma P.G. Arts
& Commerce Col.

डॉ. जयश्री शुक्ला
प्राध्यापक हिंदी
सत्र-2021-22

सितम्बर 2021

दिनांक	एम.ए. द्वितीय सेमेस्टर	एम.ए. चतुर्थ सेमेस्टर	टिप्पणी
1.9.21	सुंदरकांड की व्याख्या - 5 पद	एकांकी - ~~एकांकीकार~~ - एकांकी	रविवार
2.9.21	सुंदरकांड की व्याख्या - 5 पद	निबंध - उद्भव - विकास	5,12,19,26
3.9.21	सुंदरकांड की व्याख्या - 5 पद	निबंधकार + निबंध	
4.9.21	सुंदरकांड की व्याख्या 5 पद	कहानी - उद्भव, विकास	तीजपर्व
6.9.21	सुंदरकांड की व्याख्या 5 पद	कहानीकार + कहानी	9.9.2021
7.9.21	सुंदरकांड की व्याख्या 5 पद	महाकाव्य - उद्भव, विकास {विशेषताएँ, महाकाव्यों के नाम	गणेश चतुर्थी 10.9.21
	06		
8 सितम्बर से 12 सितम्बर → द्वितीय एवं चतुर्थ सेमेस्टर			मौखिक अवकाश 27 से 30 सितम्बर 21

18.09.2021 से एम.ए. हिंदी प्रथम सेमेस्टर (04) में प्रवेश कार्य प्रारम्भ।

जशुक्ला
प्राध्यापक

Teacher's Signature

प्राचार्य
Principal
Govt. J.P. Verma P.G. Arts
& Commerce College
Bilaspur (C.G.)

डॉ. जयश्री शुक्ला
प्राध्यापक हिंदी
सत्र-2021-22

अक्टूबर 2021

दिनांक	एम.ए. प्रथम सेमेस्टर सोम से शनि	एम.ए. तृतीय सेमेस्टर सोम से शनि	बी.ए. अंतिम साहित्य सोम से शनि	टिप्पणी
12.10.21	प्राचीन काव्य	/	प्रपत्र-प्रथम पाठ्य	रविवार
18.10.21	विशेषताएँ और प्रवृत्तियाँ		हिंदी प्रयोजनमूलक	3,10,17,
20.10.21	विद्यापति का परिचय	/	द्वितीय प्रपत्र	24,31
21.10.21	कृतित्व		जानकारी	अक्टूबर
22.10.21	विद्यापति काव्य सौंदर्य	/	छत्तीसगढ़ी साहित्य	महा.गांधी जयंती
23.	कला पक्ष		उद्भव, नामकरण	02 अक्टू.
25.	भाव पक्ष		विकास	
26.	श्रृंगार वर्णन	/	भाषा	दशहरा
27.	गीतिकाव्य		व्याकरण	अवकाश
28.	भक्त/श्रृंगारी कवि	प्रवेश प्रारंभ	कहावतें.	14 से 18
29.	वियोग वर्णन	—॥—	मुहावरे	ईद-ए-मिलाद
30.	आलोचनात्मक, लघु.	—॥—	लिंग, वचन	19 अक्टू.
	उत्तरीय, अतिलघुउत्तरीय	—॥—	काल, प्र	मैत्रेयिक
	प्रश्न	—॥—	प्रश्नोत्तर	अवकाश
	12	05	14	1 से 8 तक
	प्रस्तावित	पाठ्यक्रम पूर्ण		ऐच्छिक
				अवकाश
				13.10.21

जयश्री शुक्ला
प्राध्यापक

Teacher's Signature........

प्राचार्य
Principal
Govt. J.P. Verma P.G. Arts & Commerce College
Bilaspur (C.G.)

डॉ. जयश्री शुक्ला
प्राध्यापक हिंदी
सत्र 2021-22

नवम्बर 2021

दिनांक	एम.ए. प्रथम सेमे. सोम से शनि	एम.ए. तृतीय सेमेस्टर सोम से शनि	बी.ए. अंतिम साहि. सोम-शनि	टिप्पणी
02.11.21	प्रमुख व्याख्या विषय	भारतीय साहित्य-	पेपर हिंदी भाषा का क्षेत्र	
08.11.21	विद्यापति व्याख्या	रूपरेखा	हिंदी भाषा का उद्भव	रविवार
09.11.21	विद्यापति - व्याख्या	भारतीय साहित्य का स्वरूप	हिंदी की बोलियों की तुलना	7,14,21,28
11.11.21	विद्यापति - व्याख्या	स्वरूप	द्वितीय प्रपत्र हिंदी भाषा का उद्भव	छत्तीसगढ़ स्थापना दिवस
12.11.21	विद्यापति - व्याख्या	भारतीय अध्ययन की	हिंदी भाषा का विकास	01 नवम्बर
13.11.21	विद्यापति - व्याख्या	समस्याएँ	मूल भाषा/आर्य	
16.11.21	विद्यापति - व्याख्या	समस्याएँ	संत धर्मदास जी	छठ पूजा -
17.11.21	विद्यापति - व्याख्या	भारतीयता का समाज	परिचय/कृतित्व	10 नवम्बर
18.11.21	विद्यापति - व्याख्या	भारतीयता - व्याख्या	पदों की व्याख्या	
20.11.21	विद्यापति व्याख्या	भारतीयता के अंग	विभाग की जानकारी	गुरुनानक
22.11.21	विद्यापति - व्याख्या	समाज शास्त्र का अर्थ	विलिक रूप, शब्दों	जयन्ती
23.11.21	प्रकृति चित्रण	समाज का अर्थ	बोलचाल, राष्ट्रभाषा	19 नवम्बर
24.11.21	सौंदर्य चित्रण	शास्त्र का अर्थ	प्रश्नोत्तर	दीपावली
25.11.21	गीत पद्धति	समाजशास्त्र	अतिलघुउत्तरीय	अवकाश
26.11.21	काव्य कला, भाषा	प्रणालीगत संस्कृति	लघुउत्तरीय	3 से 6 तक
27.11.21	अलंकार, भाषा	अनेकता में एकता	रचनात्मक संचार	
29.11.21	संस्कृत साहित्य का	सांस्कृतिक संबंध	संपर्क भाषा	एकादशी
30.11.21	अध्याय प्रश्न	आध्यात्मिकता और कोरबा	विशेषताएँ	15 नवम्बर
	18	18	18	

प्रस्तावित पाठ्यक्रम पूर्ण हुआ

जयश्री
प्राध्यापक

Teacher's Signature

प्राचार्य
Principal
Govt. J.P. Verma P.G. Arts & Commerce College
Bilaspur (C.G.)

डॉ. जयश्री शुक्ल
प्राध्यापक
हिंदी

दिसम्बर 2021 एम. ए. हिंदी
द्वितीय प्रश्न पत्र प्रथम सेमेस्टर

दिनांक	प्रस्तावित पाठ्यक्रम	संपादित पाठ्यक्रम	अभ्युक्ति
1.12.21	प्राचीन काव्य सूरदास	आंतरिक मूल्यांकन की तैयारी	रविवार
2.12.21	—	आंतरिक मूल्यांकन	5, 12, 19, 26
3.12.21	अमीर खुसरो	आंतरिक मूल्यांकन	
4.12.21		अमीर खुसरो - जीवनवृत्त	घासीदास जयंती
6.12.21	रसखान	रचनाएँ - विशेषताएँ	18 दिसम्बर
7.12.21		कलापक्ष एवं भावपक्ष	
8.12.21	मीराबाई	रसखान - जीवनवृत्त	शीतकालीन
9.12.21		रचनाएँ - विशेषताएँ	अवकाश
10.12.21	रैदास	कलापक्ष एवं भावपक्ष	23 से 26 दिसंबर
11.12.21		मीराबाई - जीवनवृत्त	
13.12.21	रहीम	रचनाएँ एवं विशेषताएँ	
14.12.21	सभी कवियों का	रैदास - जीवनवृत्त	
15.12.21	जीवनवृत्त एवं	रचनाएँ एवं विशेषताएँ	
16.12.21	कृतियाँ	रहीम - जीवनवृत्त	
17.12.21		रचनाएँ - विशेषताएँ	
20.12.21		कला पक्ष	
21.12.21		भाव पक्ष	
22.12.21		रहीम की दार्शनिकता	
27.12.21	आंतरिक	मूल्यांकन	
28.12.21	आंतरिक	मूल्यांकन	
29.12.21		सेमीनार - तैयारी	
30.12.21	सेमीनार	सेमीनार	
31.12.21		~~व्याख्या~~ टिप्पणियाँ	

23

इस माह का प्रस्तावित पाठ्यक्रम पूर्ण हुआ।

जशुक्ल
प्राध्यापक

Teacher's Signature...

Principal
Govt. J.P. Verma P.G. Arts & Commerce College Bilaspur (C.G.)

डॉ. जयश्री शुक्ल
प्राध्यापक
हिंदी

दिसम्बर 2021 एम. ए. हिंदी
चतुर्थ प्रश्नपत्र तृतीय सेमेस्टर

दिनांक	प्रस्तावित पाठ्यक्रम	संपादित पाठ्यक्रम	अभ्युक्ति
1.12.21	भारतीय साहित्य	भौगोलिक एकता	रविवार
2.12.21		- आंतरिक मूल्यांकन	5, 12, 19, 26
3.12.21		- आंतरिक मूल्यांकन	
4.12.21	भारतीयता का	सामाजिक स्थिरता	घासीदास जयंती
6.12.21	समाजशास्त्र,	बाह्य आक्रमणों का प्रभाव	18 दिसम्बर
7.12.21	हिंदी साहित्य में	सामाजिकता	
8.12.21	भारतीय मूल्यों की	नैतिकता	शीतकालीन
9.12.21	अभिव्यक्ति	राजनीतिक एवं भावात्मक एकता	अवकाश
10.12.21		भारतीयता की परिकल्पना	23 से 26 दिसंबर
11.12.21		जनपदों की महत्ता	
13.12.21		भारतीय मूल्य से तात्पर्य	
14.12.21		साहित्य एवं कर्म	
15.12.21		वर्ण व्यवस्था	
16.12.21		सांस्कृतिक मूल्य	
17.12.21		सांस्कृतिक विशेषताएँ	
20.12.21		समाजशास्त्रीय मूल्य	
21.12.21		सामाजिक संस्कार	
22.12.21		आध्यात्मिक चरित्र	
27.12.21	आंतरिक	मूल्यांकन	
28.12.21	आंतरिक	मूल्यांकन	
29.12.21	सेमीनार	सेमीनार	
30.12.21		राजनीतिक चरित्र	
31.12.21		भारतीय संस्कृति	

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इस माह का प्रस्तावित पाठ्यक्रम पूर्ण हुआ।

जशुक्ल
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Teacher's Signature...

Principal
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B.Sc. Part-III

Paper-I

RELATIVITY, QUANTUM MECHANICS, ATOMIC MOLECULAR AND NUCLEAR PHYSICS

Unit-1 Reference systems, inertial frames, Galilean invariance propagation of light, Michelson-Morley experiment, search for ether. Postulates for the special theory of relativity, Lorentz transformations, length contraction, time dilation, velocity addition, variation of mass with velocity, mass-energy equivalence, particle with zero rest mass.

Unit-2 Origin of the quantum theory : Failure of classical physics to explain the phenomena such as black-body spectrum, photoelectric effect, Compton effect, Wave-particle duality, uncertainty principle, de Broglie's hypothesis for matter waves, the concept of Phase and group velocities, experimental demonstration of mater waves. Davisson and Germer's experiment. Consequence of de Broglie's concepts, Bohr's complementary Principle, Bohr's correspondence principle, Bohr's atomic model, energies of a particle in a box, wave packets. Consequence of the uncertainty relation, gamma ray microscope, diffraction at a slit.

Unit-3 Quantum Mechanics: Schrodinger's equation, Statistical interpretation of wave function, Orthogonality and normalization of wave function, Probability current density, Postulatory basis of quantum mechanics, operators, expectation values, Ehrenfest's theorem, transition probabilities, applications to particle in a one and three dimensional boxes, harmonic oscillator in one dimension, reflection at a step potential, transmission across a potential barrier.

Unit-4 Spectra of hydrogen, deuteron and alkali atoms spectral terms, doublet fine structure, screening constants for alkali spectra for s, p, d and f states, selection rules. Discrete set of electronic energies of moleculers, quantisation of vibrational and rotational energies, determination of inter-nuclear distance, pure rotational and rotation vibration spectra. Dissociation limit for the ground and other electronic states, transition rules for pure vibration and electronic vibration spectra. Raman effect, Stokes and anti-Stokes lines, complimentary character of Raman and infrared spectra, experimental arrangements for Raman spectroscopy.

Unit-5 Structure of nuclei:- Basic Properties of Nuclei: (1) Mass, (2) Radii, (3) Charge, (4) Angular Momentum, (5) Spin, (5) Magnetic Moment (μ), (6) Stability and (7) Binding Energy, Nuclear Models:- Liquid Drop Model, Mass formula, Shell Model, Types of Nuclear reactions, laws of conservation, Q-value of reactions, Interaction of Energetic particles with matter, Ionization chamber, GM Counter, Cloud Chambers, Fundamental Interactions, Classification of Elementary Particles, Particles and Antiparticles, Baryons, Hyperons, Leptons, and Mesons, Elementary Particle Quantum Numbers: Baryon Number, Lepton Number, Strangeness, Electric Charge, Hypercharge and Isospin, introductory idea of discovery of Higg's Boson.

B.Sc. Part-III

Paper-II

SOLID STATE PHYSICS, SOLID STATE DEVICES AND ELECTRONICS

Unit-1 Amorphous and crystalline solids, Elements of symmetry, seven crystal system, Cubic lattices, Crystal planes, Miller indices, Laue's equation for X-ray diffraction, Bragg's Law, Bonding in solids, classification. Cohesive energy of solid, Madelung constant, evaluation of Parameters, Specific heat of solids, classical theory (Dulong-Petit's law), Einstein and Debye theories, Vibrational modes of one dimensional monoatomic lattice, Dispersion relation, Brillouin Zone.

Unit-2 Free electron model of a metal, Solution of one dimensional Schrödinger equation in a constant potential, Density of states, Fermi Energy, Energy bands in a solid (Kronig-Penny model without mathematical details), Difference between Metals, Insulator and Semiconductors, Hall effect, Dia, Para and Ferromagnetism, Langevin's theory of dia and para-magnetism, Curie- Weiss's Law, Qualitative description of Ferromagnetism (Magnetic domains), B-H curve and Hysteresis loss.

Unit-3 Intrinsic and extrinsic semi conductors, Concept of Fermi level, Generation and recombination of electron hole pairs in semiconductors, Mobility of electrons and holes, drift and diffusion currents, p-n junction diode, depletion width and potential barrier, junction capacitance, I-V characteristics, Tunnel diode, Zener diode, Light emitting diode, solar cell, Bipolar transistors, pnp and npn transistors, characteristics of transistors, different configurations, current amplification factor, FET and MOSFET Characteristics.

Unit-4 Half and full wave rectifier, rectifier efficiency ripple factor, Bridge rectifier, Filters, Inductor filter, L and π section filters, Zener diode, regulated power supply using zener diode, Applications of transistors, Bipolar Transistor as amplifier, h-paramcter, h-parameter equivalent circuit, Transistor as power amplifier, Transistor as oscillator, principle of an oscillator and Bark Hausen's condition, requirements of an oscillator, Wein-Bridge oscillator and Hartley oscillator.

Unit-5 Digital Circuits: Difference between Analog and Digital Circuits, Binary Numbers, Decimal to Binary and Binary to Decimal Conversion, AND, OR and NOT Gates (Realization using Diodes and Transistor), NAND and NOR Gates as Universal Gates, XOR and XNOR Gate, De Morgan's Theorems, Boolean Laws, Simplification of Logic Circuit using Boolean Algebra, Digital to Analog Converter, Analog to Digital Converter.

Dr. S.S. Upadhyay
Asst. Prof. physics

Nov' 2021

Date	B.Sc. I	B.Sc. II	B.Sc. III
1-11-21	Holiday	Joule Thomson Cooling	Bohr's atomic model, energy of particle in box,
2-11-21	Harmonic oscillator, Diff. eqn and Solution	Adiabatic Cooling from Maxwell eqn, Vander waal gas	wave packet, γ-ray microscope, diffraction at slit
3-11 To 7-11	Deepawali vacation	—	—
8-11	K.E and Pot. energy, Spring-Mass system	Clausius Clapeyron eqn, Stefan Boltzmann law, BBR	Schrodinger's eqn, wave fn, orthogonality, normalization
9-11	Simple and Compound pendulum, torsional pendulum	Wein's law, Rayleigh Jeans law	Probability current density, Postulates of q.m.
10-11	Holiday	—	—
11-11	Bifilar oscillation, Helmholtz resonator, LC circuit	Planck's law for BB radiation – Numericals	Operators, Exp. values, Ehrenfest's theorem
12-11	vibration of magnet, two masses & spring, [illegible]	Maxwell's formula for distribution of speed & velocities	Transition probability, Particle in one dim. box
13-11	Damped harmonic oscillator, Lissajous figure	R.M.S. Mean and most probable speed, Doppler broadening	Particle in three dimension box
14-11	Holiday (Sunday)	—	—
15-11	Power dissipation, quality factor	Transport phenomena – viscosity, Conductivity, Diffusion	One dimensional harmonic oscillator
16-11	Forced oscillator transient & steady state	Mean free path, Collision cross section, formula for λ	Reflection at step (potential)
17-11	Resonance and power absorption, Numericals	Dependence on temp. and pressure	Rectangular potential barrier
18-11	E as acc. field, electron gun, discharge tube	Behaviour of real gas, Deviation from Ideal gas – Boyle's temp	spectra of hydrogen, deuteron
19-11	Holiday	—	—
20-11	linear accelerator, CRO – its sensitivity	The virial eqn and Vander waal eqn.	alkali atoms, spectral terms, doublet fine structure
21-11	Holiday (Sunday)	—	—
22-11	Transverse field, 180° deflection, mass spectrograph	Andrews expt. on CO₂, Critical constants	screening constant, Selection rules, Discrete energy bands
23-11	Energy determination, principle of cyclotron	Probability & statistics, principle equal a priori prob.	Pure rotational and pure vibrational spectra
24-11	Mutually ⊥ E and B fields, velocity selector – resolution	Statistical postulates, Gibb's ensemble	Internuclear distance, Rotational-vibrational spectra
25-11	Parallel E, B fields, positive ray parabola, isotopes	Accessible microstates, γ-space, μ-space, phase space	Dissociation limit for diff. states, Transition rules –
26-11	elements of mass spectrography, Magnetic focusing lens.	Eqm of two system in thermal contact	Pure vibration and electronic vibration spectra
27-11	Numericals	Probability & entropy S = k log W Boltzmann relation	Raman's effect, stokes, anti stokes lines
28-11	Holiday (Sunday)	—	—
29-11	Discussions and interactions on unit 1, 2, 3 and 4.	Canonical law and law of equipartition of energy	Complementary character of Raman & Infrared spectroscopy
30-11	Elasticity – strain stress, their types	Particle in one dimensional box (h)	Exp. arrangement of Raman's spectra

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Dr. S. S. Upadhyay
Asst. Prof., Physics

Dec'2021

Date	B.Sc. I	B.Sc. II	B.Sc. III
01-12-21	Elastic limit, Hooke's law, Modulus of rigidity	One dimensional harmonic oscillator	Basic properties of nuclei - M, R, Q, L, S, M
02-12	Poisson's Ratio, Bulk modulus	Bose Einstein, MB stat. - Difference	Binding Energy and stability
03-12	Relation between elastic constants	M-B statistics, Bose-Einstein statistics	Liquid drop model, Mass formula
04-12	Twisting couple of hollow, solid cylinder	B-E statistics	Shell model its consequences
05-12	Sunday	—	—
06-12	Bending Moment, EBM & IBM	Fermi Dirac statistics - derivation	Nuclear reactions - Q value, law of conservation
07-12	Cantilever - loaded at ends & middle	Limits of BE, FD to MB	Interaction of particles with matter
08-12	Young's modulus, Poiseuille's equation	Black body radiation - Planck's law from BE statistics	Ionisation chamber, GM counter
09-12	Equation of continuity, Euler equations	FD stat. - Application to free electron in metals	~~Cl~~ Cloud chamber, fundamental interactions
10-12	Bernoulli's theorem, viscous fluids	Speed of transverse wave along stretched string	Classification of elementary particles
11-12	Streamline/turbulent motion, Coeff. of viscosity	Speed of longitudinal wave in fluid	Baryon, Hyperons, Leptons, Mesons
12-12	Sunday	—	—
13-12	CL	CL	CL
14-12	Stoke's law, Surface Tension, Angle of contact, wetting	Energy density, and transmission in wave	Baryon no. Lepton no., Strangeness, hypercharge, Isospin
15-12	Repeated integrals, Double Triple integration	ripples and gravity waves, Numericals	Higg's Bosons and numericals
16-12	Gradient of scalar and Divergence of vector	Group velocity and phase velocity and relation	Amorphous crystalline solids, Elements of symmetry
17-12	Curl of vector, line, surface, volume integral, flux	Infrasonic and Ultrasonic waves - Applications	Seven crystal systems, cubic lattices, crystal planes
18-12	Holiday	—	—
19-12	Sunday	—	—
20-12	Gauss-Div. theorem	Reflection, Refraction, Diffraction of sound, Example	Miller indices, Laue eqn., Bragg's law
21-12	Stoke's theorem and Green's theorem	Acoustic Impedance of medium	Cohesive energy, Madelung constant, ~~[illegible]~~
22-12	Idea of current flow, Numericals	Percentage reflection and refraction at boundary	Evaluation of parameters - Examples
23-12 to 26-12	Winter vacation	—	—
27-12	Kirchhoff's law - Examples	Impedance matching for transducers	Sp. heat of solids - Dulong Petit's law
28-12	Const. voltage & const. current sources - Examples	Numericals	Einstein's theory of sp. heat
29-12	Thevenin's theorem, Norton's theorem	~~Diff~~ Diffr. of sound, SONAR, Sound ranging	Debye's theory of sp. heat
30-12	Superposition theorem, Reciprocity theorem	Numericals	One dimensional monatomic lattice vibration
31-12	Maximum power transfer theorem, Numericals	Discussion and interaction with students	Dispersion relation, Brillouin's zone

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Dr. S. S. Upadhyay
Asst. Prof., Physics

Jan 2022

Date	B.Sc. I	B.Sc. II	B.Sc. III
01-01-2022	Coulomb's law, vector form, E for charge at rest	Fermat's principle of extremum path	Free electron model of metal - Sommerfeld model (S-eq?)
02-01	Sunday		
03-01	Dipole and quadrupole fields	Aplanatic points, cardinal point of optical system	Density of states, Fermi energy
04-01	Workdone on charge as line integral - Examples	Thick lens and its focal length	Band theory - Kronig Penny model
05-01	Conservative nature, relation of E & V	Combination of thin lens and equivalent focal length	Metal, semiconductor, insulator, Hall effect
06-01	Torque on dipole, energy of dipole, flux of E field	Lagrange's eqn. of magnification, Telescopic combination	Langevin's theory of diamagnetism
07-01	Gauss's theorem - Derivation	Telephoto lens, mono chromatic abberation	Langevin's theory of paramagnetism
08-01	E due to line charge, charged cylindrical conductor	aspherical mirrors, Schmidt Corrector plate	Curie Weiss law - ferromagnetism
09-01	Sunday		
10-01	E due to infinite sheet & parallel sheets of charge	aplanatic points, oil immersion objective, meniscus lens	Magnetic domains (ferromagnetism)
11-01	Capacitors - Parallel plate, spherical, cylindrical	Entrance exit pupil, multiple lens, Ramsden's eyepiece	Hysterisis loss and B-H curve
12-01	Field energy, force per unit area on surface	Huygen's eye piece - numerical applications	Intrinsic Extrinsic semiconductor, Fermi level
13-01	Numericals	Principle of superposition, two slit interference	electron-hole pairs, mobility of holes and electrons
14-01	Conducting spheres in uniform electric field	Coherence, optical path retardation, sustained interference	Drift and diffusion current, P-N junction diode
15-01	Dielectric constant, polar & nonpolar dielectrics	Thin films - condition for bright dark fringe	Depletion width and potential barrier
16-01	Sunday		
17-01	Holiday	Holiday	Holiday
18-01	Different types of polarisations	Newton's Rings - formula derived	Numericals
19-01	Gauss law and Dielectric polarisation P	Numericals on Newton's Rings	Junction capacitance
20-01	Electric polarisation P, Displacement D	Michelson's Interferometer,	I-V characteristics of diode
21-01	Derivation D = ε₀E + P	Applications to determine λ, and Δλ	Zeener Diode, Tunnel diode LED
22-01	Dielectric susceptibility and permittivity	Multiple beam interference in parallel films	Solar cell, Bipolar transistors
23-01	Sunday		
24-01	Polarisation and Mechanism of Polarisation	Fabry-Perot interferometer - Intensity expression	PNP and NPN Transistors
25-01	Lorentz local fields - Examples	Rayleigh's Refractometer	Characteristics of transistors in CE, CB, CC mode
26-01	Republic day	Republic day	Republic day
27-01	Clausius Mosotti equation		
28-01	Debye's Equation and explanation	Twyman-Green interferometer and uses	current amplification factor
29-01	Numericals, ferroparaelectric dielectric, steady current	Numericals	FET
30-01	Sunday	Dislocations and interactions	MOSFET
31-01	Numericals, J, continuity eqn., non steady current	Sunday Numericals	Sunday Discussion on semiconductors

[signature]

Principal
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Bilaspur (C.G.)

Govt. Jamuna Prasad Verma P.G. Arts & Commerce College Bilaspur (C.G.)

Dr. S. S. Upadhyay
Asst. Prof., Physics

February 2022

Date	B.Sc. I	B.Sc. II	B.Sc. III
01-02-22	Rise and decay of current in LR-CR circuit	Diffraction, Types / Fresnel's diffraction	Half wave rectifier (η and r)
02-02	Rise and decay of current in L-CR circuit	Half period zones, Phasor diagram	Full wave rectifier (η and r)
03-02	A.C. circuit and solution of AC circuit, Complex Impedance, reactance	Intensity distribution by calculus method	Bridge rectifier
04-02	series and parallel resonance, Q, Power factor of AC circuit	Zone Plate - expression for focal length	Filters - Inductor filter, L section filter
05-02	Magnetisation current and vector M, three vectors	Diffraction at straight edge	π Section filter, Zener Diode
06-02	Sunday	Fraunhoffer's diffn at single slit	Regulated power supply with zener diode
07-02	Relations between H, X, M, Diamagnetic, Para, Ferromagnetism	Fraunhoffer's diffn at Double slit	Bipolar Transistor as amplifier
08-02	B-H curve, Hysteresis, cycle of magnetisation	Fraunhoffer's diffn at N-slits	h-parameter and h-parameter equivalent circuit
09-02	Hysteresis loss and Numericals	Plane diffn grating, Rayleigh criteria	Transistor as power Amplifier
10-02	Biot-Savart law, B due to straight conductor	R.P. of grating, Prism, telescope	Transistor as oscillator
11-02	B due to current loop	Production of plane, circular, elliptical polarized light	Principle of oscillation and Bark Hausen's condition
12-02	Current loop as Magnetic dipole and its moment	Huygen's theory, Nicol's prism	oscillator requirement - wein Bridge oscillator
13-02	Sunday	Retardation plate - its uses	Hartley oscillator
14-02	Ampere's circuital law - examples	Analysis of plane, circular, elliptical polarized light	Analog and Digital circuits
15-02	Integral Diff. form and numericals	optical activity, Fresnel's theory	Binary numbers - Decimal to Binary
16-02	Discussion and interactions on unit I, II, III, IV	Biquartz polarimeter	Binary to Decimal conversion
17-02	Electromagnetic Induction, Faraday's law	Numericals	Logic gates AND, OR
18-02	e.m.f., integral differential forms of law	Discussion and interactions	NOT gate (using Diode Transistor)
19-02	Self and Mutual Induction L, M	Basic principle of Laser, coherence length	Examples
20-02	Sunday	Coherence time, spatial coherence	NAND gate (Applications)
21-02	Transformers, Energy in static mag. field	Einstein's A and B co-efficients	NOR gate as universal gate
22-02	Maxwell's displacement current, Maxwell's equations	spontaneous, induced and stimulated emission	XOR and XNOR Gate
23-02	Maxwell's equations contd.	Laser action. population inversion	De-Morgan's Theorem (Applications)
24-02	E.M. field energy density	Ruby laser, He-Ne laser	Boolean laws and simplification of logic circuits
25-02	wave eqn satisfied by E and B	Applications - Holography, communications etc.	Digital to Analog converter
26-02	plane em waves and Poynting vector	Non linear optics, Generation of Harmonics	Analog to Digital converter
27-02	Sunday	Discussions	Discussions and interactions
28-02	Discussions on unit and Numericals	Discussions and	Discussions and interactions

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A+

CLASS- PGDCA SESSION 2021-22

PAPER-I

FUNDAMENTALS OF COMPUTER & INFORMATION TECHNOLOGY

UNIT NAME AND TOPICS	Will be Teach in
UNIT- I Introduction to Computer and Information Technology: Brief history of development of computer & generations of computer, Computer system characteristics. Capabilities and limitations block diagram of computer. Types of computer-Analog, Hybrid, digital, micro, mini, mainframe, super computer. Personal computer, types of PCs desktop, laptop, notebook, palmtop etc. Number system Data representation in computers, Number system of computers binary, octal, hexadecimal, representation & their conversion, Coding system ASCII, BCD, EDCDIC etc.	October
UNIT- II INPUT/OUTPUT devices: keyboard, mouse, monitor, trackball, joystick, digitizing table, scanners, digital cameras, MICR, OCR, OMR, Bar-code reader, Voice recognition, light pen, touch screen, devices, printer, plotter.	October
UNIT- III Storage device: Data storage and retrieval methods-sequential, direct and index sequential- various storage devices-magnetic tape, magnetic disks, cartridge tape, data drives hard disk drives, floppy disks, optical disks-CD, VCD, CDR, CDRW, DVD.	November
UNIT- IV Computer software: types of software, system software, application software, operating system, utility program, assemblers, compilers and interpreter. Operating system functions, Types batch, single user, multi user, multiprogramming, multiprocessing, Programming languages, machine, assembly, high level, 4GL, their merits and demerits. Computer virus –types of virus, virus detection & prevention virus on network.	November
UNIT- V Data Communication & networks: analog and digital signals, modulations, amplitude modular (am), frequency modulation (fm), phase modulation (pm), communication process, direction of transmission flow, simplex, half duplex, full duplex. Types of network LAN, WAN, MAN etc, Topologies of LAN ring, bus star, mesh and tree topologies, communication protocols TCP/IP protocol suit. Communication channels media twisted, coaxial fiber optic, serial and parallel communication, Network operating system (NOS), bridges, hub, routers, repeater and gateways. Modem working and characteristics. Types of connections- dialup leased lines, ISDN, broadband.	December

Principal

Govt. J.P. Verma P.G. Arts & Commerce College Bilaspur (C.G.)

Convener

Month October 2021

Class : PGDCA

Paper : paper-I

S.No.	Work to be done	Date	Sign./Remark
	Introduction class (Syllabus Discussion)	8-10-2021	Kaushal
		9-10-2021	10-SUNDAY
	Computer, characteristics of computer	11-10-2021	Kaushal
	function of computer, Block diagram of comp, number sys.	12-10-2021	Kaushal
	number system, number system conversion	13-10-2021	Kaushal
	14 to 19 - october Holiday		
	number system conversion	20-10-2021	Kaushal
	Binary arithmetic operation	21-10-2021	Kaushal 19 Holiday
	Binary Arithmetic operation, 1's & 2's Complement	22-10-2021	Kaushal
	Computer codes, BCD, EBCDIC	23-10-2021	Kaushal
	ASCII, unicode	24-10-2021	Kaushal 24-SUNDAY
	Evolution of computers, Computer generations	25-10-2021	Kaushal
	Computer generations continue	26-10-2021	Kaushal
	Computer generation continue	27-10-2021	Kaushal
	Types of computer	28-10-2021	Kaushal
	Types of computers continue	29-10-2021	Kaushal
	Unit one Revision	30-10-2021	Kaushal

Faculty In-charge

Head

Teacher's Sign.

GOVT. J.P. VERMA P.G. ARTS AND COMMERCE COLLEGE, BILASPUR (C.G.)

A+

Month : November

Class : PGDCA

Paper : paper-I

S.No.	Work to be done	Date	Work done	Sign./Remark
		02-11-2024	work on heonline ca.nic portal & Debate compl. in clh	Kaushal 1-Nov Holiday
			from 03 Nov to 07 Nov Diwali vacation	Kaushal
		08-11-2021	- Revision of previous topics	Kaushal
		09-11-2024	Input Devices, Keyboard, point & Draw Devices	Kaushal
		11-11-2024	no class due to condollence	Kaushal 10-Nov Holiday
		12-11-2024	Intercollege Debate competition	Kaushal
		13-11-2024	Joy stick, Touch screen, light pen, OMR OCR Image	Kaushal
		15-11-2024	BCR, MICR, mic, digital camera, Digitizer, electronic cards	Kaushal 14-Nov Holiday
		16-11-2024	output Devices, monitor, printer Impact printer	Kaushal
		17-11-2024	non impact printer, projector, plotter	Kaushal
		20-11-2024	Primary storage Devices	Kaushal 18-CL 19-Holiday
		22-11-2024	Access method, magnetic Tape	Kaushal 21-Holiday
		23-11-2024	magnetic Tape, magnetic Disk	Kaushal
		24-11-2024	magnetic disk Types of disk	Kaushal
		25-11-2024	optical disk & other memory devices	Kaushal
		26-11-2024	Software, system software, Application s/w	Kaushal
		27-11-2024	operating system	Kaushal
		29-11-2024	function of operating system	Kaushal 28-Holiday
		30-11-2024	Types of operating system, programming lang	Kaushal

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GOVT. J.P. VERMA P.G. ARTS AND COMMERCE COLLEGE, BILASPUR (C.G.)

Month : JANUARY-2022 A+

Class : PGDCA

Paper : II

CLASS- PGDCA SESSION 2021-22

PAPER-II

PC PACKAGES & COMPUTERIZED ACCOUNTING SYSTEM

UNIT NAME AND TOPICS	Will be Teach in
UNIT- I Fundamental of DOS & Windows: Fundamental of DOS booting process, internal and external commands, creating and executing batch files and directories creating text files. Introduction to windows features, various versions of windows, origin of windows parts of windows screen types and anatomy of windows using.	October
UNIT- II Introduction to word processing (MS-word): Advantages of word processing, editing a file using paragraphs, bullets, indentation, ect. Formatting features, printing the documents, it includes paper-size, margins, header and footer, page no., using macros. Advance word processing, header and footers. Finding text, mail merge and other application, mathematical calculations, table handing.	October
UNIT- III Introduction to spread sheet (MS-Excel): Definition and advantages of electronic worksheet, working of spread sheet, range and related operations. Setting saving and retrieving work sheet file, inserting deleting coping & moving of data cells, inserting and deleting rows & columns, protecting cell printing a worksheet, erasing a worksheet, graphs, creation, types of graphs creating a chart sheet 3D column charts, moving and changing the size of chart, printing the chart.	November
UNIT- IV Introduction to Powerpoint (MS- Powerpoint): Creating a presentation, inserting/deleting slides, different slide views, editing slides,. Slide transition & editing special effects inserting sound, picture, chart, organization chart.	November
UNIT- V Accounting software Tally ERP 9: Basic principles of double entry accounting system, creating new company security controls, groups, ledger, voucher type, modifying, new company, voucher entry, generating profit & loss account, trial balance and balance sheet, backup & restore.	December

S.No.	Work to be done	Date	Work done	Sign./Remark
		5-01-2022	MS-DOS, Booting proces, commands	Kaushal
		6-01-2022	Internal commands	Kaushal
		7-01-2022	Internal commands cont, Batch file extention	Kaushal
		8-01-2022	external commands, Windows version, features & Structure	Kaushal 09-SUNDAY
		10-01-2022	Word processing & Home tab	Kaushal
		11-01-2022	— NO - class - due to meeting in university.	Kaushal
		12-01-2022	— NO - class - due to.	Kaushal
		13-01-2022	Hom tab & Insert tab	Kaushal
		14-01-2022	chart, header footer, Hyperlink mathematics	Kaushal 16-IT-Holiday
		15-01-2022	mail merge, macro, printing proces	Kaushal
		16-01-2022	MS-Excel, work sheet, cell, work book, formula	Kaushal
		17-01-2022	chart, print, note chart, Sort filter	Kaushal
		19-01-2022	MS-power point, Creating presentation	Kaushal
			Slide transitions, Slide show,	Kaushal
			chart handling, picture insert into	Kaushal
			presentation, audio and video	Kaushal
			insertion in presentation Types	Kaushal
			& slide views	Kaushal
		24-01-2022	Accounting proces types of Accounts	Kaushal 25-National Voter day
			Accounting Teominology types of voucher	Kaushal 26-Republic Day
		01-2022	ledger entry, create company ledger	Kaushal
			creation, entry through voucher	Kaushal
			Generating, Trial Balance, profit &	Kaushal
			loss Account and Balance	Kaushal
			sheet in Tally, Backup and	Kaushal
			restore process in Tally	Kaushal
		31-01-2022	Tally revised., ledger entry company	Kaushal
			creation, voucher type voucher entry	Kaushal
			P&L A/c. Balance sheet generation	Kaushal
			Network operating system, Dialup	Kaushal
			connection leased line, ISDN connection	Kaushal

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A+

S.No.	Work to be done	Date

CLASS- PGDCA SESSION 2021-22

PAPER-III

DATA COMMUNICATION & COMPUTER NETWORK

UNIT NAME AND TOPICS	Will be Teach in
UNIT- I Introduction to Data Communication– Network models, protocols and architecture, standards organizations, line configuration, topology, transmission mode, classification of networks, OSI reference model, TCP/IP model.	October
UNIT- II Analog and digital signals, Data encoding, parallel and serial transmission, modems, transmission media: guided media, unguided media, transmission impairment, performance, Synchronous and asynchronous transmission.	October
UNIT- III Multiplexing, LLC, error detection and correction, flow control, HDLC, LANs- applications, architecture, Ethernet, 802.3 LANs, token ring, FDDI, IEEE 802.6, circuit switching, packet switching, message switching, connection oriented and connectionless services.	November
UNIT- IV Principles of internetworking– connection– oriented, connectionless, Routing concepts, routing algorithms– distance-vector routing, link state routing, shortest path routing. Congestion control, QOS, internetworking, network devices.	November
UNIT- V Network security requirements and attacks, public key and private key encryption and digital signatures, digital certificate, firewalls, IDS (Intrusion Detection System)	December

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Month : October 2021

Class : PGDCA

Paper : Paper-III

Work done	Sign./Remark
Syllabus Discussion	Kaushal
	3 - SUNDAY
Data Communication	Kaushal
Line Configuration, Transmission mode	Kaushal
Topology, mesh, Star	Kaushal
14-18 October Holiday	
Topology Tree, Bus	Kaushal
Topology Ring, Hybrid	Kaushal 19-Holiday
Category of Network LAN, MAN, WAN, PAN, Internet	Kaushal
OSI model	Kaushal
OSI model working	Kaushal
functions of the layers physical	Kaushal 24-SUNDAY
functions of the layers Data link	Kaushal
functions of the layers Network & Transport	Kaushal
functions of the layers session, presentation & Appl	Kaushal
TCP/IP protocol model	Kaushal
TCP/IP protocol model continue	Kaushal

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Teacher's Sign.

Month : October

Class : PGDCA

Paper : Paper V

CLASS- PGDCA SESSION 2021-22

PAPER-V

PROGRAMMING IN C & C++

UNIT NAME AND TOPICS	Work to be done	Date	Work done	Remark
UNIT-I Introduction to "C" Language: Fundamentals, simple I/O statements, reading and writing, data types constants, variable, operators & expressions, library function, control statements, if-else, while, do-while, goto, for statements switch, break, looping statements, functions recursion, arrays, multidimensional arrays, strings & pointers.		8-10-2021 9-10-2021 2-10-2021 2-10-2021 3-10-2021 3-10-2021 0-10-2021 1-10-2021 2-10-2021 3-10-2021 5-10-2021 6-10-2021 7-10-2021 8-10-2021 9-10-2021 0-10-2021	Syllabus Discussion C language, Variable, Constant, Keywords Data types, C- programme operators, Arithmetic, Relational, logical — 14 to 17 october Holiday — operators, unary operator, assignment op. Bitwise operators Ternary operator, sized operator, statement Decision making statement Switch case (selection statement) Looping statement, for loop while loop, do while loop Nesting of loop, jump statement function, user-defined function Recursion, call by value, call by Reference Array	Kaushal 17 - SUNDAY Kaushal Kaushal Kaushal Kaushal Kaushal 19 Holiday Kaushal Kaushal Kaushal Kaushal 24 Sunday Kaushal Kaushal Kaushal Kaushal Kaushal
UNIT-II Programming in C++, functions, class, object, constructor and destructor: Call by reference, call by value, return by reference, inline function, constant argument, function overloading, static member function, static data member,. Classes: implementing class, classes and members, accessing class members, implementing class methods, array of object, friend function. Constructor & destructors: parameterized constructor, multiple constructor, constructor with default argument, copy constructor, destructor.				
UNIT- III Operator overloading & type casting: Operator overloading, unary operator overloading, binary operator overloading, manipulates string using operator overloading, type conversions: basic to class, class to basic, class to class.				
UNIT- IV Inheritance, virtual function: single inheritance, multilevel inheritance, multiple inheritance, hybrid inheritance, hierarchical inheritance, virtual base class, abstract class.				
UNIT-V Pointer & File: Pointer to object, this pointer, virtual function and pure virtual function. File: opening and close file, detecting end of the file	Fe			

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Convenor Academic Audit Committee

Faculty In-charge

Head

Teacher's Sign.