



Hemchandracharya North Gujarat University

PATAN- 384 265 (N.G.)

Accredited by NAAC with "A" Grade (CGPA 3.02)

1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years.

| Sr. | NAME OF THE VALUE ADDED COURSES (WITH 30 OR MORE CONTACT HOURS) OFFERED |
|----------------|---|
| 2016-17 | |
| 1. | SKILL BASED I.T. COURSE |
| 2. | AGRICULTURE AND SOIL SCIENCES |
| 3. | ADVANCE DIPLOMA IN BANKING AND INSURANCE |
| 4. | FASHION DESIGN AND MANAGEMENT AND TOURISM AND HOSPITALITY MANAGEMENT |
| 5. | CERTIFICATE COURSE IN ASTROLOGY |
| 6. | DIPLOMA IN YOGA EDUCATION |
| 7. | P.G. DIPLOMA IN YOGA EDUCATION |
| 8. | PG DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY ONE YEAR |
| 9. | PG DIPLOMA IN INDUSTRIAL SAFETY& ENV. MANAGEMENT 1 YEAR |
| 2017-18 | |
| 10. | CERTIFICATE COURSE IN JAINOLOGY |
| 11. | CERTIFICATE COURSE IN PRAKRIT |
| 12. | CERTIFICATE COURSE IN FUNCTIONAL & COMMUNICATIVE ENGLISH |
| 13. | CERTIFICATE COURSE IN SPOKEN ENGLISH |
| 14. | CERTIFICATE COURSE IN DISASTER MANAGEMENT |
| 15. | CERTIFICATE COURSE IN ENVIRONMENT MANAGEMENT |
| 16. | CERTIFICATE GEOGRAPHICAL INFORMATION SYSTEM |
| 17. | INDUSTRIAL SAFETY |
| 18. | CERTIFICATE COURSE IN ASTROLOGY |
| 19. | FASHION DESIGN AND MANAGEMENT AND TOURISM AND HOSPITALITY MANAGEMENT |
| 20. | P G DIPLOMA IN FASHION DESIGN MANAGEMENT |
| 21. | P.G. DIPLOMA IN YOGA EDUCATION |
| 22. | DIPLOMA IN YOGA |
| 23. | PG DIPLOMA IN INDUSTRIAL SAFETY& ENV. MANAGEMENT |
| 2018-19 | |
| 24. | CERTIFICATE COURSE IN JAINOLOGY |
| 25. | CERTIFICATE COURSE IN PRAKRIT |
| 26. | CERTIFICATE COURSE IN FUNCTIONAL & COMMUNICATIVE ENGLISH |
| 27. | CERTIFICATE COURSE IN SPOKEN ENGLISH |
| 28. | CERTIFICATE COURSE IN DISASTER MANAGEMENT |
| 29. | CERTIFICATE COURSE IN GEOGRAPHICAL INFORMATION SYSTEM |
| 30. | INDUSTRIAL SAFETY |
| 2019-20 | |
| 31. | MSC PRACTICAL-I-SKILL DEVELOPMENT |
| 32. | COMMUNICATION SKILL-SKILL DEVELOPMENT |
| 33. | COMPUTER AWARENESS-SKILL DEVELOPMENT |
| 34. | ENVIRONMENT AWARENESS-SKILL DEVELOPMENT |
| 35. | CASE STUDY-SKILL DEVELOPMENT |
| 2020-21 | |
| 36. | CERTIFICATE COURSE IN JAINOLOGY |
| 37. | CERTIFICATE COURSE IN PRAKRIT |
| 38. | CERTIFICATE COURSE IN FUNCTIONAL & COMMUNICATIVE ENGLISH |
| 39. | CERTIFICATE COURSE IN ENVIRONMENT MANAGEMENT |
| 2021-22 | |
| 40. | NCC IN GRADUATION LEVEL IN 2 CREDIT |
| 41. | DIPLOMA IN FIRE SAFETY |
| 42. | DIPLOMA IN HEALTH & SANITARY INSPECTOR |
| 43. | BHAGWAT GEETA 2 CREDIT COURSE |
| 44. | INTEGRATED PERSONALITY DEVELOPMENT 2 CREDIT COURSE |



G/S
Vc. Registrar
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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટીના જૈનોલોજી વિભાગમાં સને જૂન-૨૦૧૨ થી છ માસનો એક સેમેસ્ટરનો એક્ષટર્નલ સર્ટિફિકેટ કોર્સ અભ્યાસક્રમ શરૂ કરવા ભલામણ કરવામાં આવે છે. જેની વધુ વિગતો નીચે પ્રમાણે રહેશે.

5f: TJT ; 1810SB SMFDF\ +6 5f G5+MZCP HGM IJUT[VeIF; SP 5IZIX08v! 5PF6GM ZCP

V પ્રવેશપાત્રતા :

- ⇒ ધો - ૧૨ અથવા સકમક્ષ કે જૂની એચ.એસ.સી (ધો- ૧૧ પાસ).
- ⇒ પ્રસ્તુત અભ્યાસક્રમ ગુજરાતી હિન્દી કે અંગ્રેજી ભાષાના માધ્યમ દ્વારા કરી શકાશે.

V પરીક્ષાનું માળખું :

- ⇒ પ્રત્યેક પ્રશ્નપત્ર ૧૦૦ ગુણનું રહેશે. તેમાં ૮ ગુણના મોટા લાંબા પ્રશ્નો એવા પાંચ પ્રશ્નો રહેશે.
- ⇒ પારિભાષિક શબ્દોના & 5 = #_ ACJ\$K<5S 5f GM VGf
- & 5 = #_ UjGf s M.C.Q.- Multy Choice Question f ZCP

V ઉત્તિર્ણતાનું ધોરણ :

- ⇒ પાસીંગ સ્ટાન્ડર્ડ લઘુતમ ૪૦ ગુણનું રહેશે.
- ⇒ વર્ગ / ગ્રેડ યુનિવર્સિટીના ધારાધોરણ મુજબના રહેશે.

V ફી નું ધોરણ :

- ⇒ અભ્યાસક્રમની કુલ ફી રૂા. ૭૫૦/- નિયત કરવામાં આવે છે.
- ⇒ પ્રશ્નપત્ર દીઠ ૧૦ સંપર્ક વર્ગો જે વિદ્યાર્થી માટે સ્વૈચ્છિક હોય તેવા યોજવાના રહેશે.

TFZLB o Z5 q_\$ q Z_! Z



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V\|f8G", ; 180LSB SMF" s HgV Z_! Z YL VD, Dfif

જૈ નો લો જી

W ; D: 8Z v! W

કોર્ષ નં. - ૧ જૈનધર્મનો પરિચય

V\$Dv! 5fRLG EFZTGF +6 WDM
! P! 5fRLG EFZTLI 5Z5ZF v J\NS v `fD6
! PZ ICgN] 5Z5ZF s Afif 6 f
! P# zD6 5Z5ZF v HG
! P\$ zD6 5Z5ZF v AMā

V\$D v Z HGWDGL 5fRLGTF
ZP! ; GFTGTF v VGFIN56
ZPZ HGMGF VFIM 5Cf, FGF Df
ZP# ; S, G v ; DgJI GL 5|S|f
ZP\$ VFIMGL ROF.

V\$D v # HGWDGL IJIX08TFVM
#P! VI: TtJJFN
#PZ VG\$fgTJFN
#P# VwI FtDJFN
#P\$ VIGQJZJFN

V\$D v \$ HG TLYSZM
\$P! TLYSZGL jI fbi F v 5IZRI
\$PZ TLYSZ VGf ; J'7DF\ TOFJT
\$P# TLYSZGF FDFgl, 1f6
\$P\$ RFZ V\TCH; S TLYSZ v VFINGFY 4 G\DGf 5 JGFY4 DCFJLZ



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VSD v 5 HG VFUDM
5P! VFUDGL jI fbI F
5PZ VFUDG\ JULSZ6
5P# VFIUDS JFRGFVM
5P\$ INUdAZ 5Z5Zf v VFUD T_kI ; FICTI
s HG 5FIZEFIQFS XaNMf

કોર્ષ નં. -૨ જૈન તત્વજ્ઞાનના પરિચયનો

VSD v ! TtJDLDf\ F v GJTtJ
! P! TtJ v 5IZEFOFF TYF TGM 5IZRI DctJ
! PZ HLJ v VHLJ
! P# 5_tI v 5F5
! P\$ VfzJvAWv; JZvIGHZfvdMf

VSD v Z 7FGGF 5SFZ v NXGGF 5SFZ
ZP! 7FG v 5IZRI
ZPZ 5ZMF 7FGv IDT4 zJT
ZP# 5_tI 1F 7FGvVIJW4 DG0 5I F! vSjJ/
ZP\$ RFZ5SFZGF NXG

VSD v # Qf8ājI
#P! ājI GM 5IZRI v JULSZ6
#PZ HLJ
#P# VHLJ v 5ā,
#P\$ VHLJv WD_v VWD_v VFSFXv SF/

VSD v \$ SD"JFN
\$P! SDI; āFVG\ DctJ
\$PZ SDGF 5SFZM
\$P# SD"5SITVM
\$P\$ SD"AWGF CTFM

VSD v 5 VG\$fgTJFN s HG 5FIZEFIQFS XaNMf



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5FK/PP

કોર્ષ નં.- ૩ જૈનધર્મ - આચાર મીમાંસા

VSD v ! VFRFZ WDGM 5IZRI s Ethics f
! P! HG NXGDF\ VFRFZG\ DctJ
! PZ A[5SFZGF VFRFZWDM
! P# VFRFZDF\ VIC\ FGL VUtI TF
! P\$ T5

VSD v Z ; FwJFRFZ
ZP! ; FwJFRFZGF 5FRDCEJIT
ZPZ 5FR; IDITv +6 UJ%T
ZP# AFJL; 5IZ; C
ZP\$ NX WD"

VSD v # zEJSFRFZ
#P! zEJSGL 5IZEFOFF
#PZ 5FR V6JIT
#P# +6 UJ6JIT
#P\$ RFZ IX1FFJT

VSD v \$ QFOFJxI S
\$P! QFOFJxI SGM 5IZRI v DctJ
\$PZ ; FDFI Sv RTJJXTL
\$P# JNGv 5ITSD6
\$P\$ SFI Mt; Uv 5tI FbI FG

VSD v 5 ; \ BGF
5P! ; \ BGFv jI FbI Fv DctJ
5PZ ; \ BGF IJW UYMD\ p<<B
5P# ; \ BGF GF 5SFZ
5P\$; \ BGF GF IVTRFZ
s HG 5FIZEFIQFS XaNMf



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**P.G. Certificate Course in Prakrit
Semester-1**

कोर्ष:- प्राकृत-१०१, विषय – प्राकृत व्याकरण-१ (महाराष्ट्री)

कोर्ष उद्देश : विद्यार्थी प्राकृत विषयची परिचित थाय, विद्यार्थी प्राकृत व्याकरणाची समज साथे प्राकृत परंपराची पण अवगत थाय.

| नं० | विषय | अंक |
|-------------|---------------------------------------|---|
| प्राकृत-१०१ | प्राकृत व्याकरण-१ (महाराष्ट्री) | १. नाम-सर्वनाम २. क्रिया-कृदन्त ३. तद्धित, अव्यय, कर्मणि, प्रेरक प्रयोग ४. ध्वनि परिवर्तन स्वर, असंयुक्त व्यंजन ५. ध्वनि परिवर्तन, संयुक्त व्यंजन |

संदर्भ पुस्तके :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास, भाग-५, गुलाबचन्द्र चौधरी. गुज.अनु.अ.जे.शा.इ., अमदावाड, श्री १०८ जैनतीर्थदर्शन, २००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन, १९८५
४. प्राकृत भाषा और साहित्य का इतिहास - नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राक संस्कृत तत्त्व. के.आर.चन्द्रा प्राकृत टेक्स्ट सोसायटी, अमदावाड
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन, दिल्ली, २००२
७. प्राकृत गद्य-संचय (Selection from the works mentioned in CPRA2 &5)
८. प्रौढ प्राकृत अष्टांश रचना, के.सी.सोगानी, अष्टांश साहित्य अकादमी, २०००
९. प्राकृत मार्गोद्देशिका-द्वितीय बेचरदास दोशी.
१०. Introduction to Prakrit - Wooler A.C



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**P.G. Certificate Course in Prakrit
Semester-1**

कोर्ष:- प्राकृत-१०१, विषय – प्राकृत व्याकरण-१ (महाराष्ट्री)

युनिट-१. એકમ-૧ નામ-સર્વનામ માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૨. એકમ-૨ ક્રિયા-કૃદન્ત માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૩. એકમ-૩ તદ્દિત, અવ્યય, કર્મણિ, પ્રેરક પ્રયોગમાંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૪ એકમ-૪ ધ્વનિ પરિવર્તન સ્વર, અસંયુક્ત વ્યંજનમાંથી પ્રશ્ન પૂછવા.
(૧૪)

યુનિટ-૫. એકમ-૫ ધ્વનિ પરિવર્તન, સંયુક્ત વ્યંજનમાંથી પ્રશ્ન પૂછવા. (૧૪)



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**P.G. Certificate Course in Prakrit
Semester-1**

कोर्ष:- प्राकृत-102, विषय – प्राकृत गद्य -पद्य १ (महाराष्ट्री) अनुवाद

कोर्ष उद्देश : विद्यार्थी प्राकृत विषयधी परिचित थाय, विद्यार्थी प्राकृत व्याकरणानी समज साथे प्राकृत परंपराधी पण अवगत थाय.

| नं० | विषय | अंक |
|-------------|---|--|
| प्राकृत-102 | प्राकृत गद्य-पद्य १ (महारा ष्ट्री) अनुवाद | १. वसुदेवहिण्डी (संबसुभाणुणं कीडा पृ.१०५-६) कुवलयमालाकहा. (कुवलयमाला-कुवलयचंदाणं उज्जाणे मिलणं पृ.१६६-६८) २. चउपन्नमहापुरिसचरियं (भइरवायरिअमंतसिद्धि पृ.११८-२० आरामसोहा कहा (प्रारंभ से वरदा प्राप्ति तक) ३. पउमचरियं (केगड़ परिणयणं-उद्देश-२४)लीलावईकहा (णयरी – रायावण्णणो गाथा ३२-७२ ४. कहारयणकोस (चन्दना कहाणयं पृ.७०) धर्मोपदेशमालाविवरण (चित्तयार दारिया-पृ.) ५. वज्जालगं (कव्य,गाहा,मित्वज्जा) गाहासत्सई (गाथामाधुरी क्रमांक१,२,४,१२,१७,१८,२२,२४,३०,३२,३६,३९,४२,४९,५४,५९,६४,६६,६७,७०,७२,७३,) |

संदर्भ पुस्तको :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास, भाग-५, गुलाबचन्द्र चौधरी. गुज.अनु.अ.जे.शा.इ.,
अमदावाड, श्री १०८ जैनतीर्थदर्शन,२००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन,१९८५
४. प्राकृत भाषा और साहित्य का इतिहास – नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राक संस्कृत तत्त्व. के.आर.चन्द्रा
प्राकृत टेक्स्ट सोसायटी,अमदावाड
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन,दिल्ली,२००२
७. प्राकृत गद्य-पद्य संचय (Selection from the works mentioned in CPRA2&5)
८. प्रौढ प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी,२०००
९. प्राकृत मार्गोपदेशिका-पंडित बेचरदास दोशी.
१०. Introduction to Prakrit - Wooler A.C



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**P.G. Certificate Course in Prakrit
Semester-1**

कोर्ष:- प्राकृत-१०२, विषय – प्राकृत गद्य -पद्य १ (महाराष्ट्री) अनुवाद

पेपर – १०२

कुलगुण – ७०

युनिट-१. अेकम-१ वसुदेवहिण्डी (संबसुभाणुणं कीडा पृ.१०५-६) कुवलयमालाकहा. (कुवलयमाला-कुवलयचंदाणं उज्जाणे मिलणं पृ.१६६-६८) मांथी प्रश्न पूछवा. (१४)

युनिट-२. अेकम-२ चउपन्नमहापुरिसचरियं (भइरवायरिअमंतसिद्धि पृ.११८-२० आरामसोहा कहा (प्रारंभ से वरदान प्राप्ति तक)मांथी प्रश्न पूछवा. (१४)

युनिट-३. अेकम-३ पउमचरियं (केगइ परिणयणं-उद्देश-२४)लीलावईकहा (णयरी – रायावण्णणो गाथा ३२-७२)मांथी प्रश्न पूछवा.
(१४)

युनिट-४ अेकम-४ कहारयणकोस (चन्दना कहाणयं पृ.७०) धर्मोपदेशमालाविवरण (चित्तयार दारिया-पृ.) मांथी प्रश्न पूछवा. (१४)

युनिट-५. अेकम-५ वज्जालगं (कव्य,गाहा,मित्वज्जा) गाहासत्सई (गाथामाधुरी क्रमांक१,२,४,१२,१७,१८,२२,२४,३०,३२,३६,३९,४२,४९,५४,५९,६४,६६,६७,७०,७२,७३,)मांथी प्रश्न पूछवा. (१४)



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P.G. Certificate Course in Prakrit

Semester-1

कोर्ष:- प्राकृत-10३, विषय - प्राकृत साहित्य परिचय

कोर्ष उद्देश : विद्यार्थी प्राकृत विषयथी परिचित थाय, विद्यार्थी प्राकृत व्याकरणानी समज साथे प्राकृत परंपराथी पर अवगत थाय.

| नं० | विषय | अेकम |
|-------------|-----------------------|---|
| प्राकृत-10३ | प्राकृत साहित्य परिचय | १. वसुदेवहिण्डी ,कुवलयमालाकहा. २. चउपन्नमहापुरिसचरियं, आरामसोहा कहा ३. पउमचरियं, लीलावईकहा ४. कहारयणकोस , धर्मोपदेशमालाविवरण ५. वज्जालगंगं, गाहासत्सई |

संदर्भ पुस्तको :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास, भाग-५, गुलाबचन्द्र चौधरी. गुज.अनु.अेन.जे.शाह, अमदावाड, श्री १०८ जैनतीर्थदर्शन,२००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन,१९८५
४. प्राकृत भाषा और साहित्य का इतिहास - नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राकृत संस्कृत तत्त्व. के.आर.चन्द्रा प्राकृत टेक्स्ट सोसायटी,अमदावाड
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन,दिल्ली,२००२
७. प्राकृत गद्य-पद्य संचय (Selection from the works mentioned in CPRA2&5)
८. प्रौढ प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी,२०००
९. प्राकृत मार्गोपदेशिका-पंडित बेचरदास दोशी.
१०. Introduction to Prakrit - Wooler A.C



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Semester-2

कोर्ष:- प्राकृत-10३, विषय – प्राकृत व्याकरण २ (शौरसेनी, मागधी, अर्धमागधी,पाली, अपभ्रंश एवं अपठित अनुवाद)

कोर्ष उद्देश : विद्यार्थी प्राकृत विषयथी परिचित थाय, विद्यार्थी प्राकृत व्याकरणानी समज साथे प्राकृत परंपराथी पर अवगत थाय.

| नं० | विषय | अंक |
|-------------|-----------------|--|
| प्राकृत-२०१ | प्राकृत व्याकरण | १. शौरसेनी, मागधी, व्याकरण. (नाम, ;सर्वनाम, क्रिया,कृदन्त) २. अर्धमागधी, अपभ्रंश व्याकरण. (नाम, ;सर्वनाम, क्रिया,कृदन्त) ३. पाली व्याकरण (नाम, ;सर्वनाम, क्रिया,कृदन्त) ४. अपठित अनुवाद : प्राकृतमांथी गुजराती अथवा हिन्दी अथवा अंग्रेज ५. अपठित अनुवाद : गुजराती अथवा हिन्दी अथवा अंग्रेजमांथी प्राकृत |

संदर्भ पुस्तको :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास, भाग-५, गुलाबचन्द्र चौधरी. गुज.अनु.अ.जे.शाह, अमदावाद, श्री १०८ जैनतीर्थदर्शन,२००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन,१९८५
४. प्राकृत भाषा और साहित्य का इतिहास – नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राकृत संस्कृत तत्त्व. के.आर.चन्द्रा प्राकृत टेक्स्ट सोसायटी,अमदावाद
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन, दिल्ली,२००२
७. प्राकृत गद्य-पद्य संचय (Selection from the works mentioned in CPRA2&5)
८. प्रौढ प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी,२०००
९. प्राकृत मार्गोपदेशिका-पंडित बेचरदास दोशी.
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कोर्ष:- प्राकृत-२०१, विषय –प्राकृत व्याकरण २ (शौरसेनी, मागधी, अर्धमागधी,पाली, अपभ्रंश एवं अपठित अनुवाद)

पेपर – २०१

कुलगुण – ७०

युनिट-१. એકમ-૧ શૌરસેની, માગધી, વ્યાકરણ. (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત)માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૨. એકમ-૨ અર્ધમાગધી, અપભ્રંશ વ્યાકરણ. (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત)માંથી પ્રશ્ન પૂછવા.(૧૪)

યુનિટ-૩. એકમ-૩ પાલી વ્યાકરણ (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત)માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૪ એકમ-૪ અપઠિત અનુવાદ : પ્રાકૃતમાંથી ગુજરાતી અથવા હિન્દી અથવા અંગ્રેજીમાંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૫. એકમ-૫ અપઠિત અનુવાદ : ગુજરાતી અથવા હિન્દી અથવા અંગ્રેજીમાંથી પ્રાકૃત માંથી પ્રશ્ન પૂછવા. (૧૪)



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Semester-2**

कोर्ष:- प्राकृत-202, विषय – प्राकृत गद्य-पद्य २ (शौरसेनी, मागधी, अर्धमागधी,पाली, अपभ्रंश (अनुवाद)

कोर्ष उद्देश : विद्यार्थी प्राकृत विषयधी परिचित थाय, विद्यार्थी प्राकृत व्याकरणानी समज साथे प्राकृत परंपराधी पण अवगत थाय.

| नं० | विषय | अंक |
|-------------|------------------------|---|
| प्राकृत-202 | प्राकृत गद्य-पद्य २ | १. कर्पूरमंजरी (कविजल-वियक्खणाकलहो जवनिका-१) ,मृच्छकटिकम् (वसंतसेणाहगस्स मुति- अंक-२). २. भावतीसूत्र (वणियाणं उवमियं शतक-१५, उत्तराध्ययनसुत्र (नमि पव्वज्जा अध्ययन-९) ३. बकजातक , धम्मपद (बालवग्गो) ४. परमप्प्यासु (२/१२८-१४३) करकंडचरिउ (संधि २/ कडवका १६-१८ ५. अशोक के शिलालेख १-३, कक्कुक-घटियाल शिलालेख |

संदर्भ पुस्तको :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास, भाग-५, गुलाबचन्द्र चौधरी. गुज.अनु.अन.जे.शाह,
अमदावाड, श्री १०८ जैनतीर्थदर्शन,२००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन,१९८५
४. प्राकृत भाषा और साहित्य का इतिहास – नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राकृत संस्कृत तत्त्व. के.आर.चन्द्रा
प्राकृत टेक्स्ट सोसायटी,अमदावाड
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन, दिल्ली,२००२
७. प्राकृत गद्य-पद्य संचय (Selection from the works mentioned in CPRA2 &5)
८. प्रौढ प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी,२०००
९. प्राकृत मार्गोपदेशिका-पंडित बेचरदास दोशी.
१०. Introduction to Prakrit - Wooler A.C



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**P.G. Certificate Course in Prakrit
Semester-2**

कोर्ष:- प्राकृत-२०२, विषय - प्राकृत साहित्य परिचय

पेपर - २०२

कुलगुण - ७०

युनिट-१. अेकम-१ कर्पूरमंजरी (कविंजल-वियक्खणाकलहो जवनिका-१) ,मृच्छकटिकम (वसंतसेणाहगस्स मुत्ति-अंक-२)मांथी प्रश्न पूछवा. (१४)

युनिट-२. अेकम-२ भगवतीसूत्र (वणियाणं उवमियं शतक-१५, उत्तराध्ययनसुत्र (नमि पव्वज्जा अध्ययन-९) मांथी प्रश्न पूछवा. (१४)

युनिट-३. अेकम-३ बकजातक , धम्मपद (बालवग्गो) मांथी प्रश्न पूछवा. (१४)

युनिट-४ अेकम-४ परमप्यासु (२/१२८-१४३) करकंडचरिउ (संधि २/ कडवका १६-१८ मांथी प्रश्न पूछवा. (१४)

युनिट-५. अेकम-५ अशोक के शिलालेख १-३, कक्कुक-घटियाल शिलालेख मांथी प्रश्न पूछवा. (१४)



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**P.G. Certificate Course in Prakrit
Semester-2**

कोर्ष:- प्राकृत-203, विषय – प्राकृत साहित्य परिचय २

कोर्ष उद्देश : विद्यार्थी प्राकृत विषयधी परिचित थाय, विद्यार्थी प्राकृत व्याकरणानी समज साथे प्राकृत परंपराधी पण अवगत थाय.

| नं० | विषय | अेकम |
|-------------|------------------------|--|
| प्राकृत-203 | प्राकृत गद्य-पद्य २ | १. कर्पूरमंजरी, मृच्छकटिकम्. २. भगवतीसूत्र, उत्तराध्ययनसुत्र. ३. बकजातक , धम्मपद ४. परमप्यासु करकंडचरित ५. शिलालेख साहित्य |

संदर्भ पुस्तको :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास, भाग-५, गुलाबचन्द्र चौधरी. गुज.अनु.अेन.जे.शाह, अमदावाद, श्री १०८ जैनतीर्थदर्शन, २००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन, १९८५
४. प्राकृत भाषा और साहित्य का इतिहास – नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राक संस्कृत तत्त्व. के.आर.चन्द्रा प्राकृत टेक्स्ट सोसायटी, अमदावाद
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन, दिल्ली, २००२
७. प्राकृत गद्य-पद्य संचय (Selection from the works mentioned in CPRA2 &5)
८. प्रौढ प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी, २०००
९. प्राकृत मार्गोपदेशिका-पंडित बेचरदास दोशी.
१०. Introduction to Prakrit - Wooler A.C



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**P.G. Certificate Course in Prakrit
Semester-2**

कोर्ष:- प्राकृत-२०३, विषय - प्राकृत साहित्य परिचय

पेपर - २०३

कुलगुण - ७०

युनिट-१. એકમ-૧ કર્પૂરમંજરી,મૃચ્છકટિકમ માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૨. એકમ-૨ ભગવતીસૂત્ર, ઉત્તરાધ્યયનસુત્ર માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૩. એકમ-૩ બકજાતક , ધમ્મપદ માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૪ એકમ-૪ પરમપ્પ્યાસુ ,કરકંડચરિત માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૫. એકમ-૫ શિલાલેખમાંથી પ્રશ્ન પૂછવા.

(૧૪)



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हेमचन्द्राचार्य उत्तर गुजरात युनिवर्सिटी, पाटण

**P.G. Certificate Course in Prakrit
Semester-1 & 2**

आंतरिक परीक्षानुं माणभुं निचे मुजब रहेशे.

कुलगुण -30

- (१) आंतरिक परीक्षाने आधारे १० टका गुणांक
- (२) सेमिनार, वर्कशोप, चर्चासलाने आधारे १० टका गुण
- (३) बुकरिव्यु / ऐसाईनमेन्ट आधारे १० टका गुणांक




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**P.G. Certificate Course in Prakrit
Semester-1**

| पेपर | विषय कोड | कोर्षनुं नाम | कोर्ष क्रेडीट | अठवाडिक व्याभ्यान | आंतरिक परीक्षा | यु.नी परीक्षा | कुलगुण | परीक्षानो समय |
|------|----------|--|------------------|----------------------|-------------------|------------------|--------|------------------|
| १ | १०१ | प्राकृत व्याकरण-१ (महाराष्ट्री) | ४ | ४ | ३० | ७० | १०० | ३ |
| २ | १०२ | प्राकृत गद्य -पद्य १ (महाराष्ट्री) अनुवाद | ४ | ४ | ३० | ७० | १०० | ३ |
| ३ | १०३ | प्राकृत साहित्य परिचय | ४ | ४ | ३० | ७० | १०० | ३ |

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**P.G. Certificate Course in Prakrit
Semester-2**

| पेपर | विषय कोड | कोर्षनुं नाम | कोर्ष क्रेडीट | अठवाडिक व्याभ्यान | आंतरिक परीक्षा | यु.नी परीक्षा | कुलगुण | परीक्षानो समय |
|------|----------|--|------------------|----------------------|-------------------|------------------|--------|------------------|
| १ | २०१ | प्राकृत व्याकरण-२ (महाराष्ट्री) | ४ | ४ | ३० | ७० | १०० | ३ |
| २ | २०२ | प्राकृत गद्य -पद्य २ (महाराष्ट्री) अनुवाद | ४ | ४ | ३० | ७० | १०० | ३ |
| ३ | २०३ | प्राकृत साहित्य परिचय- २ | ४ | ४ | ३० | ७० | १०० | ३ |



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P.G. Certificate Course in Prakrit

प्रवेशना धोरणो : कोर्ष पण विद्याशाखाभां स्नातक

कोर्ष अवधि : १ वर्ष २ सेमेस्टर

उत्तिर्ण थवाना धोरणो : युनिवर्सिटीना धारा धोरण अनुसार




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CERTIFICATE COURSE IN DISASTER
MANAGEMENT




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CERTIFICATE COURSE IN DISASTER MANAGEMENT

(Course Rules)

1. DURATION

The course shall be a Certificate Diploma Course. The duration of course shall be of six months /One Semester. The maximum duration for the course is five years from the date of enrollment.

2. PATTERN

The course is designed as per the Semester pattern (30:70) with choice based credit system. The marks for each theory paper =100

70 Marks : Each Theory Paper.

30 Marks : Each Theory Paper, Internal Assessment on the basis of Paper presentation /Assignments/Term papers/ Test exam/ Case-study presentation/ Review of Article or Books/Preparing bibliography/ Field based task. Internal assessments marks shall be given by the subject teacher and shall be submitted to the University by Head of the Institute/ Department The classes will be held at every Saturday and Sunday in order to benefit the working professionals in the field of social work.

3. FEE STRUCTURE

The fees of the year/ semester are to be decided by the university from time to time. For Foreign students Tuition Fee will be five times or as per the University as well as Govt. norms)

Note: The students should pay the fee which is decided by the university from time to time.




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4. Course Center and Intake:

Dept, of Social Work, Hemchandracharya North Gujarat University, Patan
Total Intake: 40.

5..Admission Committee:

l) For the admissions of the MSW course the composition of Admission Committee which will be the final authority is as mentioned below:

1. Co-coordinator / Head, Department of Social Work of MSW Course:

Chairman:

4. The SC and ST teacher representative to be nominated by vice chancellor

6. Merit List for admission rounds:

1. The merit list of the students shall be prepared on the basis of marks obtained by the candidate in the HSC Exam.

2. In case of less number of available students in compare to intake capacity of the course, the admission shall be on first come first serve basis.

Reservation:

l) Intake Capacity of CDM Course and Reservation quota for admission will be as per the rules of the State Government and university from time to time.

If any difficulty arises during the admission process, the admission committee should take the appropriate decision, which should be considered as final decision




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7. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in Gujarati and English.

8. VIVA VOCE EXAMINATION

There will be viva voce examination at the end of course

9. Grant of terms:

100% per cent attendance is expected at the orientation programme, orientation visits, and 90% in field work. Minimum 75% attendance is expected at the class room. Leave is ordinarily not granted. In very exceptional circumstances leave with prior permission of the Head of the Institution must be obtained. The Head of the Institution reserves the right to grant terms. Every student will have to give an undertaking in relation to compliance of all rules and regulations of the training institution. The decision of the Head of the Institution shall be final and binding in all matters pertaining to discipline and professional behavior.

10. Heads of passing

The following shall be the independent heads of passing :

- | | |
|--|-----------------------------------|
| 1. Written and theory papers | 40% of marks in each paper |
| (on the basis of external marks obtained) | |
| 2. Field work | 40% marks |
| 3. Research dissertation | 40% marks |
| 4. Viva voce | 40% of marks |




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11. Award of grades a

| Marks | Grades | Grade Points |
|--|--------|--------------|
| 1. 75 %percent marks and above (75%+) | O | 05 |
| 2. 65 %percent marks and above (65to74% | A | 04 |
| 3. 55 %percent marks and above (55to64%) | B | 03 |
| 4. 50 %percent marks and above (50to54%) | C | 02 |
| 5. 45% an above (45to50%) | D | 01 |
| 6. below 45% of marks (below 45%) | E | 0 |

(Grades should be evaluated on the basis of external marks)

The Exam Structure of the Program

| Sr.No | Subject | Internal Marks | External Marks | Total |
|-------|------------------------------|----------------|--|-------|
| 1 | CDM 01 Theory | 30 | 70 | 100 |
| 2 | CDM 02 Theory | 30 | 70 | 100 |
| 3 | CDM 03 Field work and Report | | 50 viva voce 50 Project Report Evaluation | 100 |
| | | | | 300 |




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| TITLE | | CREDITS |
|---------------------|---|-----------|
| CDM01 | BASICS OF DISASTER MANAGEMENT | 06 |
| CDM02 | DISASTER MANAGEMENT: PREPAREDNESS AND RESPONSE | 06 |
| CDM03 | PROJECT WORK/PLACEMENT | 12 |
| TOTAL CREDIT | | 24 |

DETAIL CURRICULUM

BASICS OF DISASTER MANAGEMENT

1. Meaning concept and definition of Disaster
2. Disaster: Classification, Causes, Impacts (including social economic, political, environmental, health, psychosocial)
3. Disaster, hazard, risk, vulnerability
4. Inter relation between disaster and developments Factors affecting vulnerabilities, differential impacts Impacts of development project such as dams, embankments, changes in Land use etc, climate change, relevance of indigenous knowledge, appropriate technology and local resources.
5. Government Institutions for disaster management

CDM02 DISASTER MANAGEMENT: PREPAREDNESS AND RESPONSE

1. Hazard and vulnerability profile of India.
2. component of disaster relief : water, food, sanitation, shelter, Health (pre hospital management like first aid cpr) , waste management




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3. Institutional arrangements (Mitigation, Response and preparedness, Disaster Management Act and policy) other related policies, plan programs and legislation)
4. Stages of response : relief, rehabilitation and reconstruction
5. culture of safety
6. A case study of Kutch earthquake.

CDM03 PROJECT WORK/PLACEMENT

The project work/field work is meant for students to understand vulnerabilities and to work on reducing disaster risks and to build a culture of safety. Project must be conceived creatively based on the geographic location and hazard profile of the region.

Several governmental initiatives require Urban Local bodies (ULBs) and Panchayati Raj Institutions (PRIs) to be proactive in preparing DM plans and community based preparedness plan. Information on these would be available with the District Collector or Municipal Corporations. The scope for students to collaborate on these initiatives is immense. Teacher may explore possibilities.

The potential agencies for placement or project work are as mentioned below.

District Disaster Management Unit

State Disaster Management Unit

Any disaster affected area

A systematic disaster preparedness plan implementation in PRIs

Any of the potential disaster area.

NGOs working for Disaster Management



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Bibliography

Encyclopaedia of Disaster Management By Goel, S. L.
Deep & Deep Publications Pvt Ltd

Disaster Management By G.K. Ghosh
A.P.H. Publishing Corporation

Disaster Management By R.B. Singh
Rawat Publications

Disaster Management: Through the New Millennium By Ayaz Ahmad
Anmol Publications

Emergency Medical Services and Disaster Management: A Holistic Approach By P.K. Dave
Jaypee Brothers Medical Publishers (P) Ltd

Disaster Management By B Narayan
A.P.H. Publishing Corporation

Modern Encyclopaedia of Disaster and Hazard Management By B C Bose
Rajat Publications

Disaster Management By Nikuj Kumar
Alfa Publications

Disaster Management - Recent Approaches By Arvind Kumar
Anmol Publications

Tsunamis: Threats and Management by Dr. Jagbir Singh
I.K. International

Disaster Management Future Challenges and Opportunities by Dr. Jagbir Singh.
I.K. International

Solid Waste Management by Dr. Jagbir Singh
I.K. International




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Certificate Course in
Environment Management

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EM: 1 Principles of Environmental Management

Unit: 1 Concept of Environment

- Definitions and scope of Environment
- Components of Environment
- Man and Environment
- Global Environmental Issues
- Significance of Environmental Studies

Unit: 2 Concept of Ecosystem

- Structures of Ecosystem
- Biomass, Energy and Energy Flow
- Food Chain, Food Web and Trophic Levels
- Ecosystem Restoration
- Ecological Cycles

Unit-3 Participants in Environment Management System

- Existing Users
- Group Seeking Change
- Groups with Little Controls
- The Public, Facilitators and Controllers
- Ethics and Environment

Unit-4 Environmental Policies

- Environmental Policies and Programmes in Gujarat and India
- Environmental Laws and Legislations in India
- Environmental Standards
- Environment Protection Act
- Role of various agencies in Environment Management



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EM:2 Environment Impact Assessment and Audit

Unit: 1 Introduction to EIA

- Purpose and Scope of EIA
- Environmental Clearance Procedure in India
- Stages of EIA
- Impact Prediction, Evaluation and Mitigation
- Environment Impact Statement

Unit-2 EIA Methodologies

- Checklist Method
- Metrics Method
- Ad'hoc Method
- Overlay Method
- EIA Case Studies

Unit: 3 Environmental Audit

- Objective and Scopes of EA
- EA Methodology
- Elements of Audit Process
- Waste and Audit and Pollution Prevention Assessment
- EA in Industrial Projects and case studies

Unit-4 Life Cycle Assessment

- Introduction to LCA
- Stages in Product LCA
- Procedure for LCA
- Applications of LCA
- LCA Case Studies



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EM: 3 Environment Management System and Waste Management

Unit: 1 Environment Management System Standards

- Elements of EMS
- Benefits of EMS
- Certification Body Assessment of EMS
- Documentation for EMS
- EMS Model

Unit-2 EMS Standard: ISO 14000 Series

- Introduction to ISO 14000 Series
- Principles and Structures
- EMS Specification Standard: ISO 14001
- Standards Operating Procedure
- Documentation

Unit: 3 Environmental Management Techniques

- Environmental Monitoring
- Environmental Modeling
- Environmental Risk Assessment
- Eco Mapping
- Environmental Education

Unit-4 Waste Management

- Classification of Waste
- Municipal Waste
- Industrial Waste
- Bio-Medical Waste
- E-Waste



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Certificate Course in
Geographic Information System
(GIS)

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GIS: 1 Introduction to Remote Sensing and Image Processing

Unit: 1 Remote Sensing

- Basic Definitions and Scopes
- History of RS
- Energy sources and EMR
- EMR Interactions
- Sensors and platforms

Unit: 2 Applications of Remote sensing

- Remote sensing applications in different fields
 - Environment Management
 - Forestry
 - Oceanography
 - Disaster management and other fields

Unit-3 Image Processing

- Visual Image Interpretation
- Digital Image Processing
- Image Enhancements and
- Classification
- Important Image processing software

Unit-4 Land Cover and Land Use Analysis

- LULC Data structure and sources
- Spatial data analysis - Scale, distance, regression, spatial auto-correlation, CART
- Land cover and land use classification - Hard and soft classification techniques
- Land cover and land use change detection
- Applications of LULC analysis
-



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GIS: 2 GIS analysis

Unit: 1 Geographic Information System (GIS) Essentials

- Fundamentals of Geographic Information System
- Functions of GIS
- Spatial Data Model
 - Raster Data Model
 - Vector Data Model
 - Raster vs. Vector
 - File Formats

Unit: 2 GIS Data Management

- Spatial Data Management
- Geospatial Analysis
 - Database Queries
 - Spatial Queries
 - Overlap / Boolean Operations
 - Surface Analysis
- Spatial data - Softwares and resources

Unit-3 Global Positioning System (GPS)

- Basics of GPS, History and Present development in GPS systems
- Principle and working of GPS
- GPS as a data capture unit for GIS
- Applications of GPS

Unit-4 GIS data presentation

- Data presentations techniques
- Cartography and mapping
- Modeling in GIS, various tools and software
- Fragmentation analysis
- Species distribution modeling



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GIS: 3 GIS Applications

(This paper include hands-on practice of GIS and its applications)

Unit 1: Handling Data

- o Loading Data
 - Raster
 - Vector
- o Projections and Coordinate Reference Systems
 - Data source projection
 - Project projection
 - Mixing data having different projections
- o Spatial Databases

Unit 2: Visualizing and Stylizing Data

- o Layer Management
- o Loading Layers from Spatial Database
- o Developing Styles
- o Styling Raster Layers
- o Labeling Features
- o Managing Styles
- o Conditional Styling

Unit 3: Data Creation and Editing

- o Spatial Data
- o Attribute Data
- o Data Creation
 - Data Conversion
 - GPS Data
 - On-Screen Digitizing
- o Data Editing
- o Measurements

Unit 4: Topology

- o Spatial Relationships
- o Spatial Analysis
- o Vector
- o Raster
- o 2D and 3D Spatial Analysis

Project Work:

Students will choose a topic of interest belonging to their field of study or specialization, and make a written proposal indicating how they will apply GIS to execute the project. Students will present their proposals to the class after they have approval from the Department.



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Certificate Course in
Industrial Safety

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ISM: 1 Introduction to Industrial Safety, Health and Hygiene

Unit: 1 Occupational Safety and Health

- Basic Definitions and Scopes
- Introduction and Classification of Health Hazard
- Important Standards for Industrial Safety and Health
- Routes of Entry of Toxic Elements in Human Body
- Occupational Diseases

Unit: 2 Safety Legislations in India

- Factories Act, 1848
- Workman's Compensation Act
- The Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
- SHE a human right issue
- Trade Policy affecting OHS

Unit-3 Safety Education and Training

- Basic Concept of Safety Education and Training
- Elements of Training Cycle
- Methods of Training
- Techniques of Training
- Employee Participation

Unit-4 Management information System

- Sources of information on Safety, Health and Environment Protection
- Compilation and collation of information,
- Analysis & use of modern methods of programming,
- Storing and retrieval of MIS for Safety, Health and Environment
- Status and future goals of computer utilization in Safety, Health and Environment (SHE) Services in Industries



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ISM: 2 Safety in Industries

Unit: 1 Safety in Chemical Industries

- Need of Safety in Chemical Industries
- Types of Chemical Hazards & Controls
- Material (Property) Hazards & Controls
- Safe Transfer and Transportation of Chemical
- Inspection, Testing & Maintenance

Unit: 2 Safety in Petro-Chemical Industry

- Petroleum classification and possible hazards due to petro-chemical products.
- Storage of Petroleum products. Testing of storage vessels and Safety
- Fire & Explosion in petroleum industry (Fire & Gas detectors and Fire Fighting systems in petroleum industry)
- Safety of Workers
- OISD Norms for petroleum industries.

Unit-3 Safety in Construction, Mining and Cement Industry

- Basic Parameters governing the safety in construction and mining
- Safety in the use of machinery and equipment
- Health and welfare of workers
- Above ground and underground work hazard and controls,
- Statutory safety requirement

Unit-4 Important Safety Equipment

- Personal Protective Equipment
- Fire Fighting Equipment
- Fire and Gas Detectors
- Equipments for Health and Hygiene
- Accident Prevention Equipment



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ISM: 3 Safety Engineering

Unit: 1 Plant Design and Layout

- Citing criteria
- Need for planning and Follow-up
- Plant layout and Design, General principles for factory building, Plant and equipment layout and fire protection
- Statutory provisions under the factories Act 1948 and rules,
- Indian Standard and national building code

Unit: 2 Electricity safety, lighting (illumination) and color

- Electricity, its usefulness and hazards
- Statutory provisions, Indian standard
- Effect of Electrical parameters on human body, Safety measures for electric work, over load and other protection
- Electrical work in Hazardous atmosphere, Earthing standards, Lockout and Tag-out.
- Lighting (illumination) and colour: Principles of illumination, Types of Light: Natural and artificial, direct and indirect, Light source, Lighting Design fitting and types of installation, Effects of colour on safety.

Unit: 3 Machine Guarding, Noise and Vibration

- Requirement of machine guarding, Indian standard,
- Principles of machine Guarding, Types and selection of guard, Mechanical Tool, Inspection, testing & Maintenance
- Noise and Vibration : Generation, Perception, Nature & Types of noise,
- Effect & Hazards of noise and vibration,
- Statutory provisions, control Method.

Unit-4 Hazard & Risk Identification, Assessment and Control Techniques

- Safety Appraisal System
- Safety Appraisal Analysis Techniques
- Hazard and Risk Assessment Techniques
- Accidents and Incidents Investigation, Reporting and Analysis
- Major Accident Hazard Control




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Syllabus: Astrology

Paper Type: Skill based

Credit 4

total hours 40

Course objectives and learning outcomes

1. To understand that Astrology is said to be the eye of ancient Vedic shastras.
2. To know that Astrology is the Vedic ancient science of studying constellations, planets and their movements, relationships, and their impact on human beings.
3. To interpret that as a human being takes birth on a particular date, time and place, everyone gets the effects of planetary position in the sky at that time. This affects one's attitude, body attributes, lifestyle, face outlook, success in career, accumulating wealth, etc.
4. To understand that is a preventive shastra.
5. To learn to forecast and predict future events and can also be used as a medium to get rid of any kind of mishap related to planetary positions.

UNIT -1

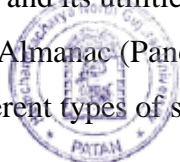
1. Origin and introduction to Universe and Astrology.
2. History of Astrology, Astrology and its originality.
3. Sages of Astrology, Requisites of an Astrologer
4. Astrology –Science & art.

UNIT – 2

1. Detailed study of Universe and Galaxies related to astrology.
2. The Zodiac and the Solarsystem–12 signs of the Zodiac.
3. Edifices of astrology
4. Importance of Astrology ,Siddantha, Samhitha and Hora.

Unit 3

1. Meaning of Panchanga and its utilities.
2. Panchanga: System of Almanac (Panchanga)&Types
3. Samvathsaras and different types of samvathsara




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4. Intoduction to Tithis, Vara, Yogas, Karana, Muhurtha.

Unit 4

1. Natural characteristics of Rasis.
2. Classification of Rasis viz. Movable, Fixed & Dual; Fiery
3. Forms/types of horoscope.
4. General information from horoscope

Suggested Books

1. Astrology for beginners, Jatinder Pal sikh Sandhu, Sagar publishers
 2. Self learning course in astrology, V K.chaudhary, sagar publishers
 3. Profession through astrology, O P Sharma, Delhi publishers
 4. Can astrology be a science, A P Velayudhan, Notion press.
 5. Secrets of astrology, Dr.S S Gola, GPH, Gullybaba books
-




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Syllabus

for

Post Graduate Diploma in
Fashion Design and Management

Semester I & II

Enforced from June-2015




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Description of the Course / Objective of the Course

The Indian apparel industry is facing an unfolding global competition since the dawn of 2005. In this context, the **POST GRADUATE DIPLOMA IN FASHION DESIGNING** Programme is designed with the objective of developing competent technical professionals for meeting the demands of the Indian apparel industry. The POST GRADUATE DIPLOMA IN FASHION DESIGNING is a 1 year Diploma course for students who wish to do higher studies in designing and garment making and those working in the industry and aspiring to obtain an academic diploma.

Regulations

1. Admission Criteria:

Graduate in any discipline

2. Course Duration:

The course shall extend over a period of one year comprising of one year (annual pattern). Examinations shall be conducted at the end of every year for the respective subjects. The academic year will be normally spanning the period from July to June.

3. Courses and Scheme of Examination:

The course of study for the POST GRADUATE DIPLOMA IN FASHION DESIGN AND MANAGEMENT course shall consist of the subjects as in section 6.

Being practical oriented programme the focus will be more for practical training. The candidate shall undergo a practical training in various activities of Fashion Designing. Students will be given more case studies during the Industrial training and they have to submit a report thereon during the course period and also at the end of the year on dates announced by the institute/department. The guideline for training shall be provided by the institute / department.

Question Papers

The university examinations shall be conducted for 100 marks and it will be converted to 60 marks as an external examination. The pattern of question papers for all the subjects shall be as follows:

Section A: Objective type of questions with no choice 20% (20 questions – 4 from each unit)

Section B: Short answer questions of either / or type 30% (5 questions – 1 from each unit)

Section C: Essay type questions of either / or type 50% (5 questions – 1 from each unit)

Internal Assessment Components:

Tests : 20 Marks

Assignments : 10 Marks

Involvement & Discipline : 10 Marks

Total : 40 Marks




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**POST GRADUATE DIPLOMA IN FASHION DESIGN AND MANAGEMENT
SEMESTER-I**

| Sr. No. | Subject | Credit | Hrs. | Internal | External | | Total |
|---------|---------------------------------------|--------|------|----------|----------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Elements and Principles of Design | 4 | 60 | --- | --- | 100 | 100 |
| 2 | Fashion Illustration-I | 4 | 60 | --- | --- | 100 | 100 |
| 3 | Basic Pattern Drafting | 4 | 60 | --- | --- | 100 | 100 |
| 4 | History of Indian Costume and Fabrics | 4 | 60 | 40 | 60 | --- | 100 |
| 5 | Fashion Marketing & Merchandising | 3 | 45 | 40 | 60 | | 100 |
| 6 | Business Mathematics-I | 3 | 45 | 40 | 60 | --- | 100 |
| 7 | Business Communication | 3 | 45 | 40 | 60 | --- | 100 |
| 8 | IT Tools and Application | 4 | 60 | --- | 30 | 30 | 100 |

1. ELEMENTS AND PRINCIPLES OF DESIGN [PRACTICAL]

- Unit I:** Elements of design – line, shape, colour, texture
Unit II: Principles of design- Balance, harmony, rhythm, emphasis, proportion
Unit III: Colour theory- colour wheel, value, intensity and grey scales, colour scheme, colour and mood, drawing and decomposition
Unit IV: Figure irregularities, becoming and unbecoming (problems and remedies).

2. FASHION ILLUSTRATION-I (PRACTICAL)

- Unit I:** Head Theory- Eight head croqui, ten head croqui mechanical and free hand pose etc, flash figure, shading, features, poster colours, pencil shading
Unit-II: Rendering Techniques
Unit-III: Fabric rendering- (10 samples of different varieties of fabric)
Unit-IV: Photo analysis Different garments of kids, male, female



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3. BASIC PATTERN DRAFTING- (PRACTICAL)

- Unit-I:** Introduction to industrial sewing machine. Students should operate the lockstitch machine. All students must learn to setup(e.g. attach footer, needle, thread machine etc.) and handle machine properly. Students will learn to sew straight lines, curves, turn corners and use the backstitch function. Students will also learn to adjust thread tension and stitch size
- Unit II:** To learn to sew variation of seams- plain seam, flat fell seam, French seam, piping, binding, pin tuck etc., To learn zip assembly methods- using 1)a normal zip and 2)an invisible zipper.
- Unit III:** To learn different hand stitching methods- overcastting stitch, herringbone stitch, slip hemming, worked button loop. Sewing of fastenings including buttons, press studs, hook & eye, To learn different methods, plackets, neck finishers.
- Unit-IV:** To learn the application of over lock machine, flat lock machine and machine embroidery machine in various seams and garment components Standard Measurements, Technical Terms in Sewing , How to take body Measurements, Child's bodice block , Different types of child's Garments , Adult's bodice block , salwars, kameez , Sari blouse , men's (Kurtas, pyjama),

4. HISTORY OF INDIAN COSTUME AND FABRICS

- Unit- I:** Beginning of costumes, origin of costumes, development of costumes, seam costume and seamless costume, body decorations, tattoos different state wise embroideries in India.
- Unit-II:** Traditional accessories and ornaments in India, dress and civilization at ancient period in India, costumes in different states.
- Unit III:** Indian ancient costumes, costumes of different peoples males, females, ornaments, accessories, head wears of following rulers period- gupta period, kushan period, Satavahana period, Maurya and Sunga period.
- Unit IV:** Introduction of Fabrics, Type of Fabrics, uses of various Fabrics in Apparel

5. FASHION MERCHANDISING

- Unit-I:** Introduction to Merchandising, Place of Marketing & Merchandising in Fashion Industry, Role & Responsibilities of a Merchandiser, Merchandising Terminology
- Unit-II:** Fashion cycle & Fashion Adoption Theories, Sample approvals, Merchandising Planning Tools & Techniques, Merchandising Calendar, Fashion Forecasting, Planning the Line , Time & Action Plan
- Unit-III:** Fashion Retail Business: Concept of Retailing, Structure of Indian Retail Industry, Drivers of Growth, Types of Retail Operations, Garment Costing
- Unit-IV:** International Marketing: Importance, Marketing mix, Market Identification, Segmentation, Targeting & Positioning, Marketing environment, Marketing



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6. BUSINESS MATHEMATICS-I

- Unit I: SET THEORY:** Sets, types of sets, subset, power set, null set, universal set, equality of two sets, complement of a set, union and intersection of sets, different of two sets, Venn diagram law of algebra of sets, De Morgan Laws, Cartesian product of two sets and number of elements in a finite set.
- Unit II: FUNCTION :** Concepts of a function, domain, co-domain and range of a function, constant functions, real functions, different functions and their graphs - linear function, quadratic function, polynomial function, rational function, exponential function and logarithmic function, function in economic theory (demand, supply, consumption, revenue and cost function) equilibrium price.
- Unit III: DETERMINANT AND MATRIX:** Meaning of matrix and types of matrices - Null matrix, square matrix. Identity matrix, symmetric matrix and skew symmetric matrix, transpose of a matrix, orthogonal matrix, addition, subtraction and multiplication of matrices, determinants and their basic properties (without proof) singular and non singular matrices, inverse of a matrix, ad joint of a matrix, solution of simultaneous equations (for two and three variables only) using inverse of matrix.
- Unit IV: LIMIT:** Limit as a function, limit of sum, product and quotient of two functions and their uses in evaluating limits, use of the standard forms (without proof)

7. BUSINESS COMMUNICATION

- Unit I: Grammar:** Tense, Voice and Modals, Vocabulary : Phrasal Verbs, Synonyms, Antonyms, Idioms, Commercial Terms (Business jargons)
- Unit II: Communication Theory:** Process of Communication, Characteristics of Business Communication, Importance of Business Communication
- Unit-III: Business Communications:** Format and Layouts of business letters, Letter writings for followings; Enquiries and Replies, Placing of orders, Execution of orders, denying of orders/ offers.
- Unit IV: Practical Examination:** Listening Comprehension, Group discussion and individual speaking, Listening, Journal Writing (Review of at least one short story/Biography of business leaders and two articles form the leading business news papers)




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8. IT TOOLS AND APPLICATIONS

Unit-I: Introduction to Computers, Operating System, Windows & its Utilities

Computer system components, Input devices, Output devices, storage, devices, computer storage elements, types of computer, Applications of computers, advantages of using computer. Operating System: Introduction to operating system, Types of User Interfaces, Functions of Operating Systems Types of Operating Systems, Booting Process, Introduction to Windows, features of Windows, various versions, Components Of Windows Internet and Outlook : Internet and intranet , Most popular internet services, Functions of Internet like email, WWW, FTP.

Unit-II: MS Word

MS Word: Creating, navigating and editing Word documents, Formatting text of a document, Formatting , viewing and printing a document, Inserting and removing page breaks, Insert Header and footers, Viewing a document, Page set up of a document, Printing a document, Working with tables and graphics, Working with objects, Mail merge and labels, Spelling and grammar tools, Autocorrect, Auto text, Auto format, Inserting endnotes and footnotes, Working with columns, Inserting comments, Creating index and tables from the content of document, Counting words, Macros, Saving document with passwords.

Unit-III: MS Excel

Introduction To Excel, Concept of workbook, worksheet, workspace, Types of data, Formatting workbook, Sorting Data Advanced Excel , Data validation, Data filter (Auto & Advance), Charts, What if analysis, Protecting Worksheet. **Functions and formulas:** Mathematical: Round, ceil floor, fact, subtotal, sum , sum if Logical : AND, OR, NOT, if Statistical: Min, max, avg, count if Text: Concatenate, Exact, find, left, right, lower, upper, trim Date and Time: Date, day, days360, hours, minute, now, second, time, today, year, datediff, Financial Functions: FV, IPMT, NPER, NPV, PM T, PV, Rate Data analysis : Standard deviation, Variance correlation, z-test, Chi-square).

Unit-IV: MS PowerPoint

Creating , browsing & saving Presentation, Editing & formatting slides, Linking multiple slides using hyperlinks and advance buttons, Using slide layouts, Adding notes to the slides, Editing and formatting slides, Working with slide masters, Inserting objects on the slide, Animating objects, Slide transitions, Choosing preset animations, Triggering animations, Applying sound effects to animation effects, Playing videos, Slide show, Custom Show



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**POST GRADUATE DIPLOMA IN FASHION DESIGN AND MANAGEMENT
SEMESTER-II**

| Sr. No. | Subject | Credit | Hours | Internal | External | | Total |
|---------|---------------------------------|--------|-------|----------|----------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Advance Pattern Making | 4 | 60 | --- | ---- | 100 | 100 |
| 2 | Techniques of Surface Ornaments | 4 | 60 | --- | ---- | 100 | 100 |
| 3 | Fashion Illustration-II | 4 | 60 | --- | --- | 100 | 100 |
| 4 | History of Western Costume | 3 | 45 | 40 | 60 | --- | 100 |
| 5 | Fashion Art | 4 | 60 | --- | --- | 100 | 100 |
| 6 | Business Mathematics-II | 3 | 45 | 40 | 60 | --- | 100 |
| 7 | Personality Development | 3 | 45 | 40 | 30 | 30 | 100 |
| 8 | Fashion & Marketing Management | 3 | 45 | 40 | 30 | 30 | 100 |

1. ADVANCE PATTERN MAKING

Unit-I: Grading, Marker Making, Women's wear – Dress (trouser)

Unit-II: Women's blouse (kotari, princess), Dart Manipulation, Skirt Variations

Unit-III: Different types of sleeves, collars, necklines

Unit-IV: Women dress (top- Patiyala), chudidar, Tunic, shirts, trousers

2. TECHNIQUES OF SURFACE ORNAMENTS

Unit -I: Introduction to Surface Ornamentation and Embroidery – General rules for Hand and Machine, Embroidery – Special Attachments to Sewing Machines for Embroidery – Tools and Equipment – Needles – Threads.

Unit- II: Hand Embroidery stitches - Running Stitch – Laced Running Stitch - Back stitch – Stem Stitch – Satin stitch – French Knot - Bullion Knot – Cross Stitch - Blanket Stitch – Button Hole Stitch – Corel Stitch – Spider Web Stitch – Fly Stitch – Feather stitch - Chain Stitch – Lazy Daisy Stitch – Roumanian

Unit-III: Special stitches - Counted thread work on canvas material – Drawn Thread Work – Cut Work – Bead Work – Mirror Work – Sequins Work. Designing



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and producing fabric appliqués and placing it on children and women's apparel.

Unit-IV: Machine embroidery stitches using SNLS machines – running stitch, long and short stitch, cut work. A detailed study on computerized embroidery machines – Concept of designing using software – Method of punching designs – Special attachments for sequins – Cording – Boring – Chenille works.

3. FASHION ILLUSTRATION – II

Unit-I: Introduction to Fashion Illustration, Observational drawing from life; attention to fashion pose, fashion pose, fashion stills, fashion model drawing, front and back lay figure.

Unit-II: The fashion figure- movement/poses- line, value and proportion- representing form by various methods and techniques.

Unit-III: Line and texture, and exploring various techniques, Drawing various accessories and shading

Unit-IV: Drawing a full fledged fashion figure with all the parts of the body, front view, back view, side view and Dressing fashion figure: Garment details, Experimenting with collage as a method of illustration, Croquis and flat sketches- male and female, Illustration for packaging, presentation, portfolio, freelance, stills.

4. HISTORY OF WESTERN COSTUME

Unit I: World costumes- Egypt, Greece, Rome, English Costumes,

Unit-II: Byzantian costumes, far eastern costumes and costumes at under developed nations.

Unit III: Century wise costumes – 17th, 18th, 19th, to present stage role costumes at world war, peace, Religion, civilization, culture, etc.

Unit-III: World Art – cubism, futurism, pop art, German expression and Romantism.

5. FASHION ART

Unit-I: **Neckline:** Heart shaped face, Oval face, Long Face – Best, Wide, Round Face Best Design Details, Jewel Necklines, Square Neckline, U-Shape, Round Neckline Sweet Heart Neckline, V-Shape Neckline, Boat, Glass Neckline, Scoop Neckline Horse Shoe Neckline, Key Hole Neckline, Asymmetrical, Tube and Tank, One off shoulder Halter Neckline, Cowl Neckline

Unit-II: **Collars:** Peter pan collar, Sailor collar, Roll collar, Gladstone, Poets, Eton, Pierrot, Convertible closed, Wing tipped, Shawl, Polo / Turtle/ Roll




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Unit-III: Sleeves: Kimono sleeves, Raglan designs, Elbow level Wrist level, Different types, of sleeves, Cap Sleeves, Puff Sleeves, Petal Sleeves, Bell Sleeves, Cowl Sleeves, Leg – of Mutton Sleeves, Lantern Sleeves, Deep-Cut Square Armhole, Drop Shoulder, Sleeve with Lowered Armhole, Raglan with yoke, Saddle Raglan, Capped raglan with dart, Basic Kimono, Basic Dolman, Raglan sleeve pattern

Unit-IV: Pleats, Pockets, Waistlines, Plackets, Gathers, Yokes, Tucks

6. BUSINESS MATHEMATICS-II

Unit-I: Linear Programming: Introduction of Operation Research, Meaning of linear programming, Mathematical formulation of LP Problem for two variables, solution of LP problems by Graphical and Simplex Method.

Unit-II: Transportation Problems: Formulation of transportation problem its initial basic feasible solution by North-West Corner rule , Matrix minima (least cost method) Vogel’s Approximation Method (VAM) and optimum solution by modified distribution method, degeneracy and its resolution.

Unit-III: Assignment Problems: - Assignment problem and its optimum solution by Hungarian method.

Unit-IV: Sequences and Series: Sequences: Introduction, Types of sequence, Arithmetic progression (A.P), Geometric progression (G.P) Series : Introduction, Types of series, Arithmetic series (A.P)

7. PERSONALITY DEVELOPMENT

Unit-I: Personality and various theories

Unit-II: Communication Skills and Learning Theories

Unit-III: Techniques in Personality development I a) Self confidence b) Etiquette c) Interview Skills d) Time Management and effective planning

Unit-IV: Techniques in Personality Development II a) Stress Management b) Meditation and concentration techniques c) Self acceptance and self growth

8. FASHION & MARKETING MANAGEMENT

Unit-I: Introduction of fashion Marketing, Fashion Marketing and buying at Industry Trade shows.

Unit-II: Fashion marketing Strategies, Styling for Advertising (electronic advertising), Fashion styling

Unit-III: Fashion Photography, Props in styling , Adapting for Magazine

Unit-IV: Types of Media and Professionals Related to it, Importance of Media in fashion Industry




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Syllabus

Bachelor of Vocation

Fashion Design and Management

Semester III and Semester IV

Enforced From June 2015




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HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY
SYLLABUS FOR B. Voc. (Fashion Design and Management)
(Enforced from June - 2014)

Preface

The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of university education, leading to setting up of Bachelor of Vocation (B. Voc.) to serve multiple needs, including (i) career oriented education and skills to students interested in directly entering the workforce; (ii) contracted training and education programmes for local employers; (iii) high-touch remedial education for secondary school graduates not ready to enroll in traditional colleges, giving them a path to transfer to three or four year institutions; and (iv) general interest courses to the community for personal development and interest. Bachelor of vocation will have with multiple exits such as Diploma and Advanced Diploma under the NSQF (National Skills Qualifications Framework).

The Bachelor of vocation model, by and large, will be accessible to a large number of individuals of the community, offer low cost and high quality education locally, that encompasses both vocation skills development as well as traditional coursework, there by providing opportunities to the learners to move directly to the employment sector or move into the higher education sector. It offers a flexible and open education system which also caters to community – based life – long learning needs.

BVFDR1: Eligibility Criteria (EC) for Admission

1. The eligibility condition to the program will be 10+2 or equivalent.
2. If the candidate has attained the specific level 4 of NOS of Fashion Industry sector (by decision of equivalence committee of the college) can get admitted in B.Voc. for the programme
3. There is no age bar for admission to Bachelor Vocation
4. The student can take exit from this course at any point of time and get re -entry in this programme.

Such students will get priority in admission than to a fresher student. (multi entry multi exit scheme)




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BVFDR2: Admission Procedure

1. For admission to the programmes offered, preference should be given to the learners living in the local community. Reservation to SC,ST, OBC and PWD categories will be available as per the extant national / State policy.
2. Admission may be done on a rolling basis depending on the duration of the programmes to facilitate a steady stream of learners joining the college and moving out as trained work force to the job market, round the year and not just once in a year.
3. The applicants seeking re-entry into the college should get preference in admission over the new applicants.
4. Candidates are selected on the basis of Merit.

BVFDR3 : Fees and Scholarship

1. Student fee should be decided as per the prevalent practice for fee fixation for aided courses.
2. Attempt should be made to recover part of the operating expenditure from the student fees.

BVFDR4 : Registration / Enrollment :

1. Every student admitted to the college for the programme must get enrolled to university within a month from the date of admission.

BVFDR5 : Semester Examinations

1. Candidates desirous of appearing at any semester examination shall have to submit applications in the prescribed form, through the designated authority on or before the prescribed date.
2. No candidate will be admitted to any Semester examination unless the Designated Authority i.e. the Head of the Department or Principal of the College certifies that :




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- (i) The candidate attended the course of study to the satisfaction of the designated authority.
- (ii) The candidate maintained a good conduct and character during the studies.
- (iii) The candidate maintained minimum 80% attendance in each semester.

BVFDR6 : Evaluation

1. Appropriate mechanism for assessment of the learners' progress towards acquisition of knowledge and skill should be developed by the College. Partner industries should also be given a clear and well defined role in the assessment of the learners.
2. Practical or hands on skills should be given comparatively more weightage in the overall assessment plan.
3. The college should adopt and integrate the guidelines and recommendations of the respective Sector Skill Councils (SSCs) for the assessment and evaluation of the vocational component, wherever required. They should also involve the SSCs in the assessment process, wherever required. It applies to colleges, both Autonomous and non-autonomous and university to maintain Occupational Standards and the fitness for the job.
4. Theory of each CORE paper will be evaluated for a maximum of 100 marks out of which, 50 marks shall be for Continuous evaluation (Exams) and 50 marks for the end semester examination shall be of 2 hours duration.
5. Practical as a combined form each core paper will be evaluated for a Maximum of 700 marks out of which, 500 marks shall be continuous internal evaluation and 200 marks for the end semester practical examination.
6. Each Elective paper is evaluated for a maximum of 50 marks which will be evaluated internally by continuous evaluation.




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BVFDR7 : Rules for grading

1. One Credit mean Equivalent of 14-15 periods of 60 minutes each, for theory, workshops / labs and tutorials per semester.
2. For internship / field work, the credit weightage for equivalent hours shall be 50% of that for lectures / workshops.
3. For self- learning, based on e-content or otherwise, the credit weightage for equivalent hours of study shall be 50% of that for lectures / workshops.
4. To pass a subject in any semester, a candidate must obtain a minimum of 40% marks in each paper.
5. If a candidate fails in any subject, he has to reappear for that particular paper and pass. (That is, for example if candidate fails in midterm exam of a subject, he has to reappear for midterm of that subject.)
6. The performance of each candidate in all the subjects will be evaluated on 7 - point scale in term of grades as follow:

BVFDR9 : Semester passing scheme

1. For each semester examination, a candidate will be considered as pass if he / she has secured “B”- or above grade in all the subject (s) and overall grade point 5.00 or above.
2. For each semester examination, a candidate will be considered as fail if he / she has secured “F” grade in any or all the subject (S).
3. If the candidate does not fulfill the subject requirement including requisite attendance percentage, he / she will be given I grade and the candidate will have to complete the course requirement before the commencement of the next End Semester examination. If the candidate does not clear I grade in any subject before the commencement of the next End semester examination, he / she will be considered fail – F grade.
4. Candidate has to clear his / her ‘F’ grade, or ‘I’ grade, if any by the next End Semester examination.




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BVFDR10 : Semester promotion scheme

A candidate will be promoted to the subsequent Semester according to the following scheme:

1. A candidate would be granted admission to the Second Semester if and only if he / she has been granted Term for First Semester and has applied for the university examination.
2. A candidate would be granted admission to the Third Semester if and only if he / she has been granted Term for First Semester and has applied for the university examination.
3. A candidate would be granted admission to the Fourth Semester if and only if he / she has cleared all the subject of First Semester. He /she will be permitted to pursue his/her study of Fourth Semester, provided his/her term for II & III Semesters is granted and has applied for the university examination.

Promotion Criteria

| Semester | Conditions for Promotion |
|-----------------|---|
| II | Grant of Term for Semester-I |
| III | Grant of Term for Semester I and Semester II |
| IV | Clearing of Semesters I completely and Grant of Term for Semester II and Semester III |
| V | Clearing of Semesters II completely and Grant of Term for Semester III & Semester IV |
| VI | Clearing of Semesters III completely and Grant of Term for Semester IV & Semester V |

BVFDR11 : Award of Grading / Division

No class/ division will be awarded to the student in the first 5 semesters. Divisions shall Be awarded only at the end of Final Examination on successful completion of all the Semesters. For awarding the degree at the end of the course, as per the other course of university.

| Sr. No. | CPI | Division |
|---------|---------------|---------------------------------|
| 1 | 7.50 to 10.00 | FIRST Division with Distinction |
| 2 | 6.50 to 7.49 | FIRST Division |
| 3 | 6.00 to 6.49 | SECOND Division |




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BVFDR12 : Award of degree

1. Award of Certificate, Advanced certificate, Diploma or Advanced Diploma, as the case may be, would depend on acquisition of requisite credits as prescribed by the certification body and not on the calendar time spent in pursuing the course.
2. The certificate shall mention the credits earned course duration (in hours), and the curriculum covered. If the course is aligned with NVEQF / NSQF , the corresponding NVEQF / NSQF Level should also be mentioned on the certificate.
3. Award of degree will be as follows.

| NVEQF Level | Skill Component Credits | General Education Credits | Normal Calendar Duration (Post meeting the entry criterion) | Awards |
|-------------|-------------------------|---------------------------|---|----------------------|
| 7 | | | Six Semester | Bachelor of vocation |
| 6 | 72 | 48 | Four Semester | Advanced Diploma |
| 5 | 36 | 24 | Two Semester | Diploma |
| | 18 | 12 | One Semester | Advanced Certificate |
| | 9 | 6 | Three Months | Certificate |




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BACHELOR OF VOCATION IN FASHION DESIGN AND MANAGEMENT

SEMESTER - 3

| Sr. No. | Subject | Credit | Hours | Internal | External | | Total |
|---------|-------------------------------------|--------|-------|----------|----------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Design Ideas – I | 4 | 60 | --- | ---- | 100 | 100 |
| 2 | Advance Pattern Making | 4 | 60 | --- | ---- | 100 | 100 |
| 3 | Indian Traditional Textiles | 3 | 45 | 40 | 60 | --- | 100 |
| 4 | Art Appreciation | 3 | 45 | 40 | 60 | --- | 100 |
| 5 | Corel Draw & Photoshop | 4 | 60 | --- | --- | 100 | 100 |
| 6 | Fashion & Marketing Management | 3 | 45 | 40 | 60 | --- | 100 |
| 7 | Brand Design and Management | 3 | 45 | 40 | 60 | --- | 100 |
| 8 | Survey Based Project (Knitwear) | 4 | 60 | --- | --- | 100 | 100 |

1. DESIGN IDEAS – I

Unit-I: Fashion figure (Male, Female, Kids) with various views-

Drawing of Male, Female & Kids fashion figure. , Different views such as Front, Back, Side & $\frac{3}{4}$ Indian traditional garments, Conceptualisation of designs (Theory), implementation of designs & patterns (theory), illustration of traditional garments.

Unit-II: Body details- Drawing body details with different movements. Drawing arms, legs, feet, palm, & different positions.

Unit-III: Face details with hair styles- Drawing different face positions such $\frac{3}{4}$ front, side. Facial details like eyes, nose and lips.

Unit-IV: Clothing details (elements of fashion including fashion accessories)

Drawing various Fashion elements to form a garment such as, types of sleeves, necklines, pockets, cuffs, collars, yokes, waist bands, bows & ties, frills & flounces etc. and Application on the Fashion figure using EOF : Drawing and combining different Fashion elements on a Fashion figure to make a good Design.



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2. ADVANCE PATTERN MAKING

Unit-I: Types of necklines (any 3), Types of Collars (any 3)

Unit-II: Types of Sleeves & cuffs (any 3)

Unit-III: Basic skirt & Skirt variation (any 2)

Unit-IV: Chudidar , Blouse single draping

3. INDIAN TRADITIONAL TEXTILES & EMBROIDERY

Unit-I: Indian traditional woven textile, Significance of traditional textile and functions of embroideries.

Unit-II: Understanding Of Traditional Textiles For Process, Application And Design Kota, bauchari, brocade, kanjeevaram, chanderi, tangail, jamdani, ikats, patolas

Unit-III: Traditional embroidery, patch work [pipli] ,zardosi, kashidakari, kantha, chikankari, phulakari

Unit-IV: Mirror work, chamba rumal, kasuti, tie & die, block printing, screen printing, spray painting, fabric painting

4. ART APPRECIATION

Unit-I: Ancient Indian Historic period's influence – architecture, cultural, religion, tradition, people, incidents, Medieval Indian Historic period's influence – architecture, cultural, religion, tradition, people, incidents

Unit-II: Modern Indian Historic Period – architecture, cultural, religion, tradition, people, incidents, Roman renaissance – Application of these influences in designing garments.

Unit-III: Western art Influences – Application of these influences in designing garments, Greek Historic period – Application of these influences in designing garments.

Unit-IV: Modern Period World art like, Modern Buildings, paintings, Architecture, Sculptures, and films etc - Application of these influences in designing garments.

5. Corel Draw & Adobe Photoshop




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Unit-I: Adobe Photoshop – CS 5

Draw and manipulate custom raster/vector shapes using the Pen tool and shape tools, Create precise selections in low-contrast images using vector masks and paths, Use smart Objects in Photoshop to non-destructively edit, link, update images., Sharpen, blur, and vignette images using customizable and editable Smart Filters, Apply professional-quality typography in Photoshop, considering leading, kerning, tracking, baseline shift, and ligatures, Handle type creatively by applying textures to text, pushing photographs through text and other shapes, and hiding portions of text, Combine multiple photographs using gradient masks, blending sliders, and displacement maps.

Unit-II: Utilize blend modes, gradients, and the Refine Edge dialog to combine images seamlessly, Retouch and alter photographs non-destructively, using dodging and burning, adjustment layers, Create attractive grayscale, partial grayscale, and duotone images, Use Swatches panel, and Color Libraries to effectively select and manage color schemes, Create custom brushes, use the Mixer Brush for freehand painting in Photoshop, and turn images into paintings.

Unit-III: Corel Draw – X3

Develop knowledge of fundamental concepts in bitmap and vector art, Identify and discuss digital art applications for Adobe Photoshop and Corel Draw, Develop and sketch illustration concepts to prepare them for digital creation. Use shape and freehand drawing tools to create complex shapes and patterns. Follow basic routines for correcting bitmap images, applying effects, adding text and saving files for the design layout in Corel Draw. Follow basic routines for making selections, and adding fills, strokes, and color, and saving files for the design layout in Corel Draw. Create a set of digital art pieces through exploration and experimentation.

Unit-IV: Use gradients to create lighting and shadow effects, Import bitmap and vector art into Illustrator and create guides for illustration. Create simple iconographic illustrations and shapes. Develop proficiency in drawing or tracing using the Bezier, freehand tool. Combining, breaking apart, grouping, ungrouping, separating and converting to curves. Create a sequential illustration that repeats certain features and colors over a series of frames to maintain a consistent look. Design a symmetrical title or identity that integrates repeated graphic elements and typography. Drawing rectangle, ellipses, polygons, stars, spirals and graph paper with shape tools.

6. Fashion & Marketing Management




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- Unit-I:** Introduction of fashion Marketing, Fashion Marketing and buying at Industry Trade shows.
- Unit-II:** Fashion marketing Strategies, Styling for Advertising (electronic advertising), Fashion styling
- Unit-III:** Fashion Photography, Props in styling , Adapting for Magazine
- Unit-IV:** Types of Media and Professionals Related to it, Importance of Media in fashion Industry

7. Brand Design and Management

- Unit-I:** Fundamentals in Brand management- Designer as Brand. Brand management- Focus on Public Relation, Event and Media planning.
- Unit-II:** Catalogue Design, Corporate Stationary Design, Visual Merchandising, Styling elements: model, accessories, background theme.
- Unit-III:** Styling for Fashion Photography, Nature of the Fashion Industry, Structure of Fashion company, Merchandise process and the inter relationship of Players and their roles.
- Unit-IV:** Developing Brand image, Advertising and Promotion in the Fashion industry. The Fashion System and its most important Brands- Designs, Consumers and Quality.

8. Project Based on Internship on Knitwear Manufacturing Unit

- Detailed study on the given topic, data collection, evaluation and conclusion
- The student will be required to complete their study and submit a comprehensive report



| Sr. No. | Subject | Credit | Hours | Internal | External | | Total |
|---------|--|--------|-------|----------|----------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Textile Finishing Process (Georgette & Chiffon) | 4 | 60 | --- | --- | 100 | 100 |
| 2 | Quality Control | 3 | 45 | 40 | 60 | | 100 |
| 3 | Advance Garment Construction | 4 | 60 | --- | --- | 100 | 100 |
| 4 | CAD | 4 | 60 | --- | --- | 100 | 100 |
| 5 | Presentation & Portfolio | 4 | 60 | --- | --- | 100 | 100 |
| 6 | Business Mathematics-II | 3 | 45 | 40 | 60 | --- | 100 |
| 7 | Business Environment | 3 | 45 | 40 | 60 | --- | 100 |
| 8 | Internship | 4 | 60 | --- | --- | 100 | 100 |

1. TEXTILE FINISHING PROCESS

Unit-I: Basic techniques, treatments and process of textile finishing, Finishing Terminology & classification

Unit-II: Mechanical and Chemical finishes, Permanent and temporary finishes

Unit-III: Preparatory finishes, Stabilizing finishes

Unit-IV: Textural finishes, Functional finishes

2. QUALITY CONTROL

Unit-I: Introduction to Quality Control: Definition & Importance, Inspection: Definitions & Inspection loop, Raw Material Inspection, Fabric Inspection: Woven, Knitted, Fabric Defects & Fabric Grading System

Unit-II: Accessories: Interlining, Sewing Thread, Zipper, Buttons etc. In process Inspection, Defects: Pattern & Maker, Spreading, Cutting, Sewing, Pressing & Finishing etc. Final Inspection

Unit-III: Statistical Sampling & sampling plans, Quality Control Tools: AQL, AOQL, Quality Management Systems: ISO, TQM, 6 Sigma, Kaizen, Lean Manufacturing, Measurement Checking of different Garments

Unit-IV: Introduction to Textile Testing, Significance & Elements of testing, Principles of Textile testing Instruments, Quality Evaluation of fibre, yarn & Fabric Physical testing-linear density, twist, tensile strength, dimensional stability, colour fastness, Chemical Testing-blend composition, wrinkle recovery, water resistance, colour fastness, Reading & Understanding Test Reports.

3. ADVANCE GARMENT CONSTRUCTION



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- Unit-I:** Introduction of Specialized Sewing machine
Unit-II: Overlock, Button and Button holes,
Unit-III: Dart Manipulation, variation of kurties / shirts/ tunics (any 4)
Unit-IV: Blouse (katori, princess), Dress (Patiyala and Top)

4. CAD (PLOTTER)

- Unit-I:** Introduction about reach Fashion Studio
Unit-II: Menu Command, Working area
Unit-III: Style studio, Photo studio, Material studio
Unit-IV: Using these tools and effects make the folder of – Western casual, Western party wear, Executive wear, Sportswear, Indian casual wear, Indian formal wear

5. PRESENTATION & PORTFOLIO

- Unit-I:** Creating Mood Boards, Theme Boards, client Boards, swatch Boards, Creating lines, collage work
Unit-II: Theme based illustrations, Fashion Accessories designing
Unit-III: Illustrating different hair style, Design studio – designing dresses based on different themes for a fashion show
Unit-IV: Study of the basic aspects of a fashion show, Designing and illustrating lines for a fashion.

6. BUSINESS MATHEMATICS-II

- Unit-I:** Linear Programming: Introduction of Operation Research, Meaning of linear programming, Mathematical formulation of LP Problem for two variables, solution of LP problems by Graphical and Simplex Method.
Unit-II: Transportation Problems: Formulation of transportation problem its initial basic feasible solution by North-West Corner rule , Matrix minima (least cost method) Vogel's Approximation Method (VAM) and optimum solution by modified distribution method, degeneracy and its resolution.
Unit-III: Assignment Problems: - Assignment problem and its optimum solution by Hungarian method.
Unit-IV: Sequences and Series: Sequences: Introduction, Types of sequence, Arithmetic progression (A.P), Geometric progression (G.P) Series : Introduction, Types of series, Arithmetic series (A.P)



7. BUSINESS ENVIRONMENT

Unit-I: Introduction of business environment : Meaning, significance and components of business environment. An aggregate view of Demographic - Economic - political and legal – social and culture – technological - international environment And its impact on business and strategic decision.

Demographic Environment : Compositional characteristics of Indian population, Malthus theory of population, Population policy of India, population projections and their significance for business.

Unit-II: Economic Environment : Money and capital markets, Fiscal policy, Recent union budget, Current Five year plan. Role of agriculture Industry in Economic envelopment. Recent trends in industrial Development and its impact on Indian economy. Industrial sickness: causes and remedies. **Political and Legal Environment** : Indian constitution, fundamental rights, directive principles of state policy. Political and Legal Environment of India affecting business environment.

Unit-III: Socio- cultural Environment : Social stratification, socio-cultural fabric and lifestyles: customs, taboos, tastes and preferences and their impact on business **Technology Environment**: Significance of technology in business, choice of technology - Capital intensive and labour intensive. Impact of technological changes on business.

Unit-IV: International Environment: MNCs, Recent Export-Import policy. Role of international financial institutions like WTO, World bank and their impact on business environment.

8. INTERNSHIP

- Detailed study on the given topic, data collection, evaluation and conclusion
- The student will be required to complete their study and submit a comprehensive report




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Syllabus

for

Bachelor of Vocation

Tourism and Hospitality Management

Enforced from June-2014




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HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY
SYLLABUS FOR B. Voc. (Tourism and Hospitality Management)
(Enforced from June - 2014)

Preface

The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of university education, leading to setting up of Bachelor of Vocation (B. Voc.) to serve multiple needs, including (i) career oriented education and skills to students interested in directly entering the workforce; (ii) contracted training and education programmes for local employers; (iii) high-touch remedial education for secondary school graduates not ready to enroll in traditional colleges, giving them a path to transfer to three or four year institutions; and (iv) general interest courses to the community for personal development and interest. Bachelor of vocation will have with multiple exits such as Diploma and Advanced Diploma under the NSQF (National Skills Qualifications Framework).

The Bachelor of vocation model, by and large, will be accessible to a large number of individuals of the community, offer low cost and high quality education locally, that encompasses both vocation skills development as well as traditional coursework, there by providing opportunities to the learners to move directly to the employment sector or move into the higher education sector. It offers a flexible and open education system which also caters to community – based life – long learning needs.

BVFDR1: Eligibility Criteria (EC) for Admission

1. The eligibility condition to the program will be 10+2 or equivalent.
2. If the candidate has attained the specific level 4 of NOS of Fashion Industry sector (by decision of equivalence committee of the college) can get admitted in B.Voc. for the programme
3. There is no age bar for admission to Bachelor Vocation
4. The student can take exit from this course at any point of time and get re-entry in this programme.

Such students will get priority in admission than to a fresher student. (multi entry multi exit scheme)




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BVFDR2: Admission Procedure

1. For admission to the programmes offered, preference should be given to the learners living in the local community. Reservation to SC,ST, OBC and PWD categories will be available as per the extant national / State policy.
2. Admission may be done on a rolling basis depending on the duration of the programmes to facilitate a steady stream of learners joining the college and moving out as trained work force to the job market, round the year and not just once in a year.
3. The applicants seeking re-entry into the college should get preference in admission over the new applicants.
4. Candidates are selected on the basis of Merit.

BVFDR3 : Fees and Scholarship

1. Student fee should be decided as per the prevalent practice for fee fixation for aided courses.
2. Attempt should be made to recover part of the operating expenditure from the student fees.

BVFDR4 : Registration / Enrollment :


1. Every student admitted to the college for the programme must get enrolled to university within a month from the date of admission.

BVFDR5 : Semester Examinations

1. Candidates desirous of appearing at any semester examination shall have to submit applications in the prescribed form, through the designated authority on or before the prescribed date.
2. No candidate will be admitted to any Semester examination unless the Designated Authority i.e. the Head of the Department or Principal of the College certifies that :

- (i) The candidate attended the course of study to the satisfaction of the designated authority.




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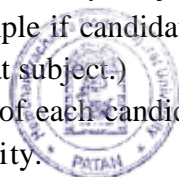
- (ii) The candidate maintained a good conduct and character during the studies.
- (iii) The candidate maintained minimum 80% attendance in each semester.

BVFDR6 : Evaluation

1. Appropriate mechanism for assessment of the learners' progress towards acquisition of knowledge and skill should be developed by the College. Partner industries should also be given a clear and well defined role in the assessment of the learners.
2. Practical or hands on skills should be given comparatively more weightage in the overall assessment plan.
3. The college should adopt and integrate the guidelines and recommendations of the respective Sector Skill Councils (SSCs) for the assessment and evaluation of the vocational component, wherever required. They should also involve the SSCs in the assessment process, wherever required. It applies to colleges, both Autonomous and non-autonomous and university to maintain Occupational Standards and the fitness for the job.
4. Theory of each CORE paper will be evaluated for a maximum of 100 marks out of which, 30 marks shall be for Continuous evaluation (Exams) and 70 marks for the end semester examination shall be of 2 hours duration.
6. Each Elective paper is evaluated for a maximum of 70 marks which will be evaluated internally by continuous evaluation.

BVFDR7 : Rules for grading

1. One Credit mean Equivalent of 14-15 periods of 60 minutes each, for theory, workshops / labs and tutorials per semester.
2. For internship / field work, the credit weightage for equivalent hours shall be 50% of that for lectures / workshops.
3. For self- learning, based on e-content or otherwise, the credit weightage for equivalent hours of study shall be 50% of that for lectures / workshops.
4. To pass a subject in any semester, a candidate must obtain a minimum of 40% marks in each paper.
5. If a candidate fails in any subject, he has to reappear for that particular paper and pass. (That is, for example if candidate fails in midterm exam of a subject, he has to reappear for midterm of that subject.)
6. The performance of each candidate in all the subjects will be evaluated as per the other courses of university.



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BVFDR9 : Semester passing scheme

1. For each semester examination, a candidate will be considered as pass if he / she has secured “B”- or above grade in all the subject (s) and overall grade point 5.00 or above.
2. For each semester examination, a candidate will be considered as fail if he / she has secured “F” grade in any or all the subject (S).
3. If the candidate does not fulfill the subject requirement including requisite attendance percentage, he / she will be given I grade and the candidate will have to complete the course requirement before the commencement of the next End Semester examination. If the candidate does not clear I grade in any subject before the commencement of the next End semester examination, he / she will be considered fail – F grade.
4. Candidate has to clear his / her ‘F’ grade, or ‘I’ grade, if any by the next End Semester examination.

BVFDR10 : Semester promotion scheme

A candidate will be promoted to the subsequent Semester according to the following scheme:

1. A candidate would be granted admission to the Second Semester if and only if he / she has been granted Term for First Semester and has applied for the university examination.
2. A candidate would be granted admission to the Third Semester if and only if he / she has been granted Term for First Semester and has applied for the university examination.
3. A candidate would be granted admission to the Fourth Semester if and only if he / she has cleared all the subject of First Semester. He /she will be permitted to pursue his/her study of Fourth Semester, provided his/her term for II & III Semesters is granted and has applied for the university examination.

Promotion Criteria

| Semester | Conditions for Promotion |
|----------|---|
| II | Grant of Term for Semester-I |
| III | Grant of Term for Semester I and Semester II |
| IV | Clearing of Semesters I completely and Grant of Term for Semester II and Semester III |
| V | Clearing of Semesters II completely and Grant of Term for Semester III & Semester IV |
| VI | Clearing of Semesters III completely and Grant of Term for Semester IV & Semester V |




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BVFDR11 : Award of Grading / Division

No class/ division will be awarded to the student in the first 5 semesters. Divisions shall Be awarded only at the end of Final Examination on successful completion of all the Semesters. For awarding the degree at the end of the course, as per the other course of university.

| Sr. No. | CPI | Division |
|---------|---------------|---------------------------------|
| 1 | 7.50 to 10.00 | FIRST Division with Distinction |
| 2 | 6.50 to 7.49 | FIRST Division |
| 3 | 6.00 to 6.49 | SECOND Division |

BVFDR12 : Award of degree

1. Award of Certificate, Advanced certificate, Diploma or Advanced Diploma, as the case may be, would depend on acquisition of requisite credits as prescribed by the certification body and not on the calendar time spent in pursuing the course.
2. The certificate shall mention the credits earned course duration (in hours), and the curriculum covered. If the course is aligned with NVEQF / NSQF , the corresponding NVEQF / NSQF Level should also be mentioned on the certificate.
3. Award of degree will be as follows.

| NVEQF Level | Skill Component Credits | General Education Credits | Normal Calendar Duration (Post meeting the entry criterion) | Awards |
|-------------|-------------------------|---------------------------|---|----------------------|
| 7 | | | Six Semester | Bachelor of vocation |
| 6 | 72 | 48 | Four Semester | Advanced Diploma |
| 5 | 36 | 24 | Two Semester | Diploma |
| | 18 | 12 | One Semester | Advanced Certificate |
| | 9 | 6 | Three Months | Certificate |




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Bachelor of Vocation – Tourism and Hospitality Management

Semester-1

| Sr. No. | Subject | Credit | Hours | Internal Examination | External Examination | | Total |
|---------|---|--------|-------|----------------------|----------------------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Conceptual Framework of Tourism | 04 | 60 | 30 | 70 | --- | 100 |
| 2 | Basic Accounting | 04 | 60 | 30 | 70 | --- | 100 |
| 3 | Tourism Organization : Travel Agency, Tour Operator | 04 | 60 | 30 | 35 | 35 | 100 |
| 4 | Tourism Resources in India | 04 | 60 | 30 | 70 | --- | 100 |
| 5 | IT Tools and its Application | 04 | 60 | 30 | 35 | 35 | 100 |
| 6 | Business Mathematics-I | 04 | 60 | 30 | 70 | --- | 100 |
| 7 | Communication Skill-I | 02 | 30 | 30 | 35 | 35 | 100 |
| 8 | Field Tour and Project | 04 | 60 | --- | ---- | 100 | 100 |




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Detailed Syllabus

1 Conceptual Framework of Tourism

Unit – I Conceptual Framework

25%

- Tourism: definition, meaning, nature and scope
- Tourist, travelers, visitor, transit visitor and excursionist - definition and differentiation
- Leisure, recreation and tourism and their Interrelationship
- Concept of tourism resource, attraction, product, market, industry and destination in the context of tourism
- Components and elements of tourism: Intermediaries and suppliers
- The tourism system
- Types and typologies of tourism
- Approaches to study tourism

Unit – II Historical Dimensions of Tourism

25%

- Travel and tourism through the Ages: Early Travels, 'Renaissance' and 'Age of Grand Tours'; Emergence of modern tourism, concept of "Paid holiday"
- understanding tourism motivations
- Factors affecting growth and development of International and national Tourism
- Concept of Push and Pull factors in Tourism
- Impacts of Industrialization and Technological Advancements on tourism industry

Unit – III Infrastructure in Tourism

25%

- Tourism Infrastructure - Types, Forms and Significance
- Accommodation: Forms and types
- Transport Sectors: Modes and relative significance
- Other support Infrastructures required for tourism

Unit – IV Tourism Demand and supply & Significance of Industry

25%

- Concept of demand and supply in tourism
- Unique features of tourist demand
- Constraints in creating ideal destination
- Economic impacts of tourism: income and employment, multipliers of tourism, balance of payments, foreign exchange etc.
- Socio-cultural impacts of tourism: cultural exchange among nations and international understanding
- Impacts of tourism on ecology and environment.




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REFERENCE BOOKS

1. Chottopadhyay, K. (1995): Economic Impact of Tourism Development; An Indian Experience, Kanishka Publishers, Delhi.
2. Cooper, C, Fletcher, J, Gilbert, D and Wanhill, S. (2002): Tourism: Principles and Practice, Addison Wesley Longman Publishing, New York, USA
3. Kamra & Chand (2002): Basics of Tourism, Theory Operation and Practice; Kanishka Publishers, New Delhi-02
4. Kamra, Krishna. K (2001): Economics of Tourism; Pricing, Impacts, Forecasting; Kanishka Publishers, New Delhi-02
5. Mishra, S.N; Sadual S, K (2008): Basics of Tourism Management, Excel Books , New Delhi – 28
6. Prasad, V V V and Sundari V B T (2009): Travel and Tourism Management; Excel Books , New Delhi – 28
7. Raj. K. (2002): Modern Dictionary of Tourism, Ivy Publishing House, Delhi – 95
8. Seth, P.N. Bhat, S. (1993): An Introduction to Travel and Tourism, Starling Publishers, New Delhi
9. Krishnan, K.K. (2001): Managing Tourist Destination: Development, Planning, marketing, Policies, Kanishka Publishers Distributors, New Delhi -110002
10. Bhatia, A. K. (1991): Tourism Development: Principles and Practices, Starling Publishers Pvt. Ltd, New Delhi
11. Negi, J. (2003): Travel Agency Operation: Concepts and Principles, Kanishka Publishers Distributors, New Delhi-110002




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2 Principles of Accounting

I CONCEPTUAL FRAMEWORK:

Meaning and objectives of accounting- Business transactions, classifications of accounts, Rules for Debit & Credit–difference between capital and revenue expenditure. – Basic accounting terms: assets, liabilities, capital, expenses, debtors, creditors, goods, cost, gain, stock, purchase, sale, loss, profit, voucher, discount, transaction, drawings, depreciation, reserve & provisions. **25%**

II ACCOUNTING CYCLE :

Introduction of journal, various and ledger - Examples related only to recording the transaction into journal, posting into ledger, balancing. **20%**

III ACCOUNTING PRINCIPLES AND DEPRECIATION ;

Accounting concepts- Accounting conventions (Theory Only)- Depreciation, examples on fixed installment Method, Diminishing Balance Method. **20%**

IV PREPARATION OF FINAL ACCOUNTS

(i) Trial Balance - Trading account, profit and loss account and balance sheet of sole proprietor. **20%**

(ii) SUBSIDIARY BOOKS

Purchase book- Sales Book – Purchase Return Book, Sales Return Book- Bills Receivables Book – Bills Payable Book – Triple Column Cash Book with discount, cash and bank column. **15%**

Reference Books:

1. Introduction to Accountancy -by Dr. S.N. Maheshwari, Dr. S. K. Maheshwari, Sharad K. Maheshwari (Vikas Publishing House, New Delhi)
2. Financial Accounting. By Narayan Swamy (Prentice Hall India., New Delhi)
3. Financial Accounting. By Ashish Bhattacharya (Prentice Hail India. New Delhi)
4. Financial Accounting-by P.c. Tulsian (Tata McGraw Hill Publishing CO"New Delhi)
5. Principles and Practice of Accountancy –B. S. Shah Prakashan




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3 Tourism Organisation : Travel Agency, Tour Operator

Unit – I Travel Organization 25%

- Organization and Functions of UNWTO, TAAI, IATO, IATA and PATA
- Case studies of Travel agency and Tour operators: Thomas Cook, SITA, TCI and any one successful travel agency of Assam/ NE India

Unit – II Understanding of Travel Agency and Tour Operator 25%

- Travel Agency and Tour Operation Business: Definition and differentiation, types, forms of organizations
- Genesis and growth of travel agency and tour operator business
- Functions of a travel agency: travel information, documentation, tour counseling, ticketing, reservation and itinerary, immigration related services, etc.
- Functions of tour operators: Negotiation and liaising with principles, tour package formulation, pre-tour arrangements, tour operations and post-tour management
- Source of income of travel agency and tour operator: commission, service charges and mark up on tours

Unit – III Approval, Travel Formalities 25%

- Enterprunership and tourism
- Procedure for setting up of Travel Agency and Tour Operating Enterprises; Their role in development of tourism industry
- Approval from Dept. of Tourism (DOT), International Air Transport Association (IATA)
- Travel Formalities: Passport, Visa and Health Regulation along with travel documents required for visiting NE region of India: Restricted Area Permit (RAP) and Inner Line Permit (ILP)

Unit – IV Tour Package Designing 25%

- Tour Packaging: definition, types and designing a tour package; Tourist Guide: definition, types, duties and responsibilities

REFERRED BOOKS

1. Bhatia, A. K. (1991): Tourism Development: Principles and Practices, Starling Publishers Pvt. Ltd, New Delhi
2. Bhattachararya, P. (2004): Tourism in Assam, Trends and Potentialities, Bani Mandir, MMC Bhawan, Ghy-3
3. Mandal, V.K (2008): Travel and Transport Agency, Cyber Tech Publication, Ansari Road, Daryaganj, New Delhi
4. Negi, J.(1998) : Travel Agency & Tour Operation, concept and Principles, Kanishka Publishers, Distributors, New Delhi -02
5. Negi, K.S. (2011): Travel Agency Management, Wisdom Press, New Delhi -02



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4 Tourism Resources of India

Unit – I Knowledge of history and its importance in tourism 25%

- Brief outline of Indian history in ancient, medieval and modern period and growth and development of travel related activity.
- British rule and genesis of modern tourism in India

Unit – II Historical, Cultural and Religious tourism resources of India 25%

- Art and architecture of tourism significance
- World Heritage monuments and other prominent monuments of India
- Cultural tourism resources: Indian Classical dances and Folk dance forms, music and musical instruments, art and handicraft, fairs and festivals – religious and socio-cultural
- Religious tourism resources: Major religions of India- Hinduism, Islam, Christian, Buddhism, Sikhism and Jainism and study of the famous shrines/centers of the major religions of India

Unit – III Natural tourism resources of India 25%

- Brief study of National Parks and Wildlife Sanctuaries, Bird Sanctuaries, tiger and crocodile project sites of India
- Major hill stations, Islands, river and river islands of India
- Important sea Beaches of India- Mumbai, Puri, Goa, Chennai, Trivandrum and Kerala.
- Adventure Sports: Existing trends and places of importance for Land based, water based and aero based adventure sports of India

Unit – IV Catalyst of Tourism Development in India 25%

- Tourism promotional festivals of India
- Museum and art galleries of India
- Tourist Trains in India- Palace on Wheels, Heritage on wheels, Royal Orient Express, Deccan Odyssey, Fairy Queen, Metro trains and Hill trains of India.
- Important tourism Circuits- Golden triangle - Delhi, Agra and Jaipur, Southern triangle - Mahabalipuram, Kanchipuram and Madurai, Buddhist circuit - Lumbinie, Bodhgaya, Sarnath and Kushinagpur and Green triangle- Guwahati, Shillong and Kaziranga, Bhubaneswar, Puri- Konark
- Important hotel chains in India




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REFERRED BOOKS

1. Acharya, R. (1986): Tourism & Cultural Heritage of India, ROSA Publication, Jaipur
2. Harle, J.C. (): The Art and Architecture of Indian Sub Continent
3. Hussain,A.A.(1987) :The national culture of India, National Book Trust, New Delhi
4. Jacob, R., Joseph, S., Philip, A. (2007): Indian Tourism Practices, Abhijit Publications
5. Percy, B. (): Indian Architecture – Hindu and Buddhist Period
6. Mukerjee, R.K. : The Culture and Art of India: George
7. Raina, A.K, Raina, C. L, (2005) Fundamentals of Tourism and Indian Religion, Principles and Practices, Kanishka Publishers, Distributors, New Delhi -02
8. Sharma, U. (2008): Festivals in Indian Society, Mittal Publication, New Delhi -02
9. Singh, A. (): Cultural Tourism in India
10. Singh. R. (): Dynamics of Historical Cultural & Herita ge Tourism
11. Rai. H. C. (): Hill Tourism Planning & Development




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5 IT Tools and Applications

Unit – I Introduction to Computers, Operating System, Windows & its Utilities

Computer system components, Input devices, Output devices, storage, devices, computer storage elements, types of computer, Applications of computers, advantages of using computer. Operating System: Introduction to operating system, Types of User Interfaces, Functions of Operating Systems Types of Operating Systems, Booting Process, Introduction to Windows, features of Windows, various versions, Components Of Windows Internet and Outlook : Internet and intranet , Most popular internet services, Functions of Internet like email, WWW, FTP, Usenet, IRC, instant, messaging, Internet Telephony Managing emails, Using address book, Working with task list, Scheduling appointments. **25%**

Unit – II MS Word

MS Word: Creating, navigating and editing Word documents, Formatting text of a document, Formatting , viewing and printing a document, Inserting and removing page breaks, Insert Header and footers, Viewing a document, Page set up of a document, Printing a document, Working with tables and graphics, Working with objects, Mail merge and labels, Spelling and grammar tools, Autocorrect, Auto text, Auto format, Inserting endnotes and footnotes, Working with columns, Inserting comments, Creating index and tables from the content of document, Counting words, Macros, Saving document with passwords. **25%**

Unit – III MS Excel

Introduction To Excel, Concept of workbook, worksheet, workspace, Types of data, Formatting workbook, Sorting Data Advanced Excel , Data validation, Data filter (Auto & Advance), Charts, What if analysis, Protecting Worksheet. **25%**

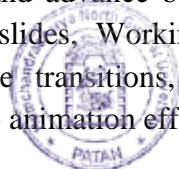
Functions and formulas:

1. Mathematical: Round, ceil floor, fact, subtotal, sum , sum if
2. Logical : AND, OR, NOT, if
3. Statistical: Min, max, avg, count if
4. Text: Concatenate, Exact, find, left, right, lower, upper, trim
6. Date and Time: Date, day, days360, hours, minute, now, second, time, today, year, date
7. Financial Functions: FV, IPMT, NPER, NPV, PMT, PV, Rate Data analysis : Standard deviation, Variance correlation, z-test, Chi-square).

Unit – IV MS PowerPoint

25%

Creating , browsing & saving Presentation, Editing & formatting slides, Linking multiple slides using hyperlinks and advance buttons, Using slide layouts, Adding notes to the slides, Editing and formatting slides, Working with slide masters, Inserting objects on the slide, Animating objects, Slide transitions, Choosing preset animations, Triggering animations, Applying sound effects to animation effects, Playing videos, Slide show, Custom Show **25%**



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Reference Books:

1. PC Software, R. K. Taxali, Tata MacGraw Hill Publishing Company.
2. Working with Personal Computer Software (2nd Ed.) – R.P.Soni, Harshal Arolkar, Sonal Jain, Wiley –India Publications.
3. O-level- Module-I, II & III, Satish Jain, Sashank Jain, Sashi Singh & Dr. Madhulika Jain, BPB Publication.
4. Office 2003 in simple steps- Dreamtech Press.
5. Jain, V.K.; *Computers and Beginners*.




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6 Business Mathematics-I

I SET THEORY

25%

Sets, types of sets, subset, power set, null set, universal set, equality of two sets, complement of a set, union and intersection of sets, difference of two sets, Venn diagram law of algebra of sets, De Morgan Laws, Cartesian product of two sets and number of elements in a finite set.

II FUNCTION :

25%

Concepts of a function, domain, co-domain and range of a function, constant functions, real functions, different functions and their graphs - linear function, quadratic function, polynomial function, rational function, exponential function and logarithmic function, function in economic theory (demand, supply, consumption, revenue and cost function) equilibrium price.

III DETERMINANT AND MATRIX

25%

Meaning of matrix and types of matrices - Null matrix, square matrix. Identity matrix, symmetric matrix and skew symmetric matrix, transpose of a matrix, orthogonal matrix, addition, subtraction and multiplication of matrices, determinants and their basic properties (without proof), singular and non singular matrices, inverse of a matrix, adjoint of a matrix, solution of simultaneous equations (for two and three variables only) using inverse of matrix.

IV LIMIT

25%

Limit as a function, limit of sum, product and quotient of two functions and their uses in evaluating limits, use of the standard forms (without proof)

Reference Books:

1. Business Mathematics, V. K. Kapoor, Sultan chand and sons, New Delhi.
2. Business Mathematics, Allen R. G. D., Pitamber publication house.
3. Quantitative Techniques in Management, Vohra N. D., Tata MacGraw –Hill Publishing Company, New Delhi.
4. Elements of Business Mathematics by Soni, Sharma and Saxena (Pitamber Publication)
5. Mathematics for Management and Computer Applications, Sharma J. K. , Galgotia Private Limited, New Delhi.




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7 Business Communication – I

| | | | | |
|------------|--------------------------------|---|--|------------|
| I | Grammar | : | Tense, Voice and Modals | |
| | Vocabulary | : | Phrasal Verbs, Synonyms, Antonyms, Idioms, Commercial Terms (Business jargons). | 25% |
| II | Communication Theory | : | Process of Communication Characteristics of Business Communication Importance of Business Communication | 25% |
| III | Business Communications | : | | 25% |
| | a. | | Format and Layouts of business letters | |
| | b. | | Letter writings for followings; Enquiries and Replies, Placing of orders, Execution of orders, denying of orders/ offers. | |
| IV | Practical Examination: | | | 25% |
| | - | | Listening Comprehension (25%) | |
| | - | | Group discussion and individual speaking (25 %) | |
| | - | | Listening (25%) | |
| | - | | Journal Writing (Review of at least one short story/Biography of business leaders and two articles form the leading business news papers). (25%) | |

Reference Books:

1. Business Communication by M.K. Sehgal, Excel Books, New Delhi
2. Practice English Grammar By A. J. Thomson & A. V. Matrinet
3. Modern Business Letters By L. Gartside (ELBS)
4. Principles and Practice of Business Communication By Phoda A. Doctor & Aspi H. Doctor. (A. R. Shetha & Co. Bombay)
5. Business Communication By U. S. Rai & M. S. Rai, (Himalaya Publishing House, Bombay)
6. Business Communication- By R. K. Madhukar, (Vikas Publishing House Pvt. Ltd., Noida)




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HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY
PATAN - 384 265



NAAC Accreditation Grade - " B "

ISO 9001 - 2008 Certified

Bachelor of Vocation Programme
Tourism and Hospitality Management

Syllabus / Scheme

SEMESTER---II

WITH SEMESTER /CBCS/GRADING PATTERN

W. E. F. : January-2015

Date : 27-02-2015

TOTEL PAGE -06




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Semester - 11

| Sr. No. | Subject | Credit | Hours | Internal | External | | Total |
|---------|---------------------------|--------|-------|----------|----------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Foreign Language (French) | 4 | 60 | 30 | 35 | 35 | 100 |
| 2 | Accommodation Sector | 4 | 60 | 30 | 70 | --- | 100 |
| 3 | Geography and Tourism | 4 | 60 | 30 | 70 | --- | 100 |
| 4 | Transportation Management | 4 | 60 | 30 | 35 | 35 | 100 |
| 5 | Basic Statistics-I | 4 | 60 | 30 | 70 | --- | 100 |
| 6 | Basic Chemistry | 4 | 60 | 30 | 35 | 35 | 100 |
| 7 | Computer Science | 4 | 60 | 30 | 35 | 35 | 100 |
| 8 | Survey Based Project | 4 | 60 | --- | --- | 100 | 100 |



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Semester-II

1. Foreign Language – French

Bachelor's Degree programme specially customized for the Tourism sector with Tourism terminologies, Conversation and less of Literature and understanding of language in terms of speaking, listening and writing.

2. Accommodation Sector

Types of Accommodation – organized (Hostels, Motels, Resorts, Spas) And unorganized (Dharamshala, hostels, guest house and so on)

Classification of Hotels based on Location, Facilities, Price based, Star Categorisation, management based

Department of a Hotel- Front office, housekeeping, Food and Beverages

3. Geography and Tourism

Fundamentals of geography, climatic variations and regions of india and their role in tourism; physical and political features of india subcontinent; types of destination, Ecology of india.

Destinations and Circuits:

Golden Triangle, Diamond Triangle, Southern Triangle – Bangalore, Mysore, Ooty, Tempal Triangle – Tanjore, Madurai, Rameshwaram; U.P. Circuits- Buddhist Circuits others; Rajasthan -Jalpur, Jodhpur, Jaisalmer, Udaipur, Bikaner, Shckhawat region; Kerala -Munnat, Kottayam Ernakulam, Trivandram, Backwater; Goa; Himachai pradesh – Shimla Kullm, Manali, pragpur; Andaman & Nicobar Ialand; Lakshwadeep Islands, Sikkim; Konark, Mahaballi puram, Backwater and River Major tourist genercrafting countries and states withio India; cruises; New and recent destinations of the Country.

4. Transportation Management

Introduction to Transportation and Linkage with tourism - Air, Water Surface

Air – Scheduled and non scheduled services, Lcc and its benefits, types of seats, booking cancellation and refunds

Water – River, lake and Ocean / sea cruises

Surface Transport: options available the clients – car, coach, bus, Rent -a-car

Scheme and coach -bus Tour, Fare Calculation, Transport & Insurance document

Transportation cycle, Calculation of rates for surface travel; Rail Transport:

General information about Indian Raiiways, Indrail pass, Introduction to the types of rail tour in India: luxury trains, hill trains, express train, mail and passenger

5. Basic Statistics-I



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6. Tourism Resonrees and Products- III

Festivals of india (with respect to each religion and region)

Role of Festivals as tourist attraction – destination associated with each Festivals Fairs of india – USP and destination

Tourism related fairs and events (such as fashion show, sporting events, Govt. Sponsored) of India

7 Guiding Skills

Introduction to STT and Adventure Tourism

Land Based Adventure tourism

Skills required for

Trekking

Hiking

Rock Climbing

Medical Requirements

Introduction to Water Sports

Introduction to Adventure Water Sports

Handling emergencies – Medical, Personal, Official, VISA/ Passport, Death,

8 Sight Tour

4-5 days tour on Geography based destination or festival based destination .



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**Hemchandracharya North Gujarat University,
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NAAC ACCREDITATION " A "

PROGRAM CODE : HNGU 3012



**DIPLOMA IN YOGA EDUCATION
(D.Y.ED.)**




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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

| | |
|---------------------------|---|
| કોર્સનું નામ : | ડિપ્લોમા ઈન યોગ એજ્યુકેશન (વેકેશનલ) (Diploma in Yog Education) |
| વેકેશન અભ્યાસક્રમ : | (દર રવિવાર અને રજાઓ દરમ્યાન અભ્યાસવર્ગ) |
| અભ્યાસક્રમ સમયવિધિ : | ૧ વર્ષ (૧૭૦ કલાક અભ્યાસવર્ગ) |
| પ્રવેશ લાયકાત : | ધો. ૧૨ પાસ |
| અભ્યાસક્રમની વિદ્યાશાખા : | આ અભ્યાસક્રમમાં 'શિક્ષણ' ની વિદ્યાશાખાના અધિકાર ક્ષેત્ર નીચે ચાલશે અને તેની અભ્યાસ સમિતિ અલગ રહેશે. |

વિદ્યાર્થી સંખ્યા અને શિક્ષક વિદ્યાર્થી પ્રમાણ અંગે :

- વિદ્યાર્થીઓની સંખ્યા ૩૦ (ત્રીસ રહેશે)
- જરૂરી માળખાકીય સુવિધા મુજબ તેમજ યોગ શિક્ષકની સંખ્યા પ્રમાણે વિદ્યાર્થીઓની સંખ્યા માનનીય કુલપતિશ્રીની મંજૂરીથી વધારી શકાશે.

યોગઅભ્યાસ સ્થળ : પ્રદૂષણમુક્ત શાંત વિસ્તારમાં

વર્ગ અભ્યાસ માટે : LCD પ્રોજેક્ટરનો પણ ઉપયોગ કરવાનો રહેશે.

- યુનિવર્સિટી કે માન્ય સંસ્થાના ડિપ્લોમા અથવા માસ્ટર ડિગ્રી પદ ધારક અથવા પરંપરાગત સંસ્થાનાં અનુભવી તજજ્ઞોની વ્યાખ્યાતા તરીકેની સેવાઓ લઈ શકશે.
- પાંચ વર્ષથી વધુ અધ્યાપન ક્ષેત્રનો અનુભવ ધરાવતા તજજ્ઞની મુલાકાતી અધ્યાપક તરીકે સેવાઓ લઈ શકશે.

ભાષાનું માધ્યમ : ગુજરાતી, હિન્દી અને / અથવા અંગ્રેજી

અભ્યાસ ક્ષેત્ર અનુસાર : ટ્રેસ કોડ જરૂરી

અભ્યાસક્રમની ફી : વાર્ષિક ફી અંદાજે રૂ. ૪૦૦૦/- વિદ્યાર્થીદીઠ રહેશે.

વિદ્યાર્થી પ્રવેશ પદ્ધતિ : યુનિવર્સિટી વખતોવખત જે માર્ગદર્શન આપશે તે મુજબ પ્રવેશ કાર્યવાહી કરવાની રહેશે.

વિદ્યાર્થીની હાજરી : વાર્ષિક પરીક્ષામાં બેસવા માટે વર્ષ દરમ્યાન વિદ્યાર્થીને ૭૫% હાજરી ફરજિયાત ભરવાની રહેશે.

પરિક્ષા યોજના : ડિપ્લોમા ઈન યોગ એજ્યુકેશન (વેકેશન કોર્સ) ની વાર્ષિક પરીક્ષા બે ભાગમાં લેવામાં આવશે.

જેમ કે, (૧) સૈધ્ધાંતિક (થીયરી) (૨) કૌશલ્ય (યોગ પ્રાયોગિક) જે પરિશિષ્ટ મુજબ છે.

ડિપ્લોમા ઈન યોગ એજ્યુકેશનના વિદ્યાર્થીઓ માટે પરિક્ષાના દરેક વિભાગમાં

બાહ્ય પરીક્ષા : યુનિવર્સિટી દ્વારા

આંતરિક પરીક્ષા : સંબંધિત વિભાગ / એકમ / કોલેજ દ્વારા યુનિવર્સિટીના નિયમનુસાર યોજવાની રહેશે.

પરીક્ષામાં ઉત્તીર્ણ થવાનું ધોરણ અને વર્ગ તેમજ ગ્રેડ

સૌધ્ધાંતિક અને પ્રાયોગિક વિભાગમાં ૪૫% ગુણ ઉત્તીર્ણ થવા માટે જરૂરી ગણાશે.

A⁺ ૮૦% અને તેથી ઉપર, C⁺ ૫૦% અને તેથી ઉપર

A ૭૦% અને તેથી ઉપર, C ૪૫% અને તેથી ઉપર

B⁺ ૬૦% અને તેથી ઉપર, NC ૪૫% અને તેથી નીચે (FAIL)

B ૫૫% અને તેથી ઉપર




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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

કોર્સનું નામ : ડિપ્લોમા ઈન યોગ એજ્યુકેશન વેકેશનલ (Diploma in Yog Education)

સૈધ્ધાંતિક વિષય : ૧ થી ૪

પ્રાયોગિક વિષય : ૫

| અ.નં | વિષય કોડ | વિષયનું નામ | અભ્યાસ કલાક | પરિક્ષાનું માળખું | | કુલ |
|------|-----------|--|-------------|-------------------|-------|-----|
| | | | | આંતરિક | બાહ્ય | |
| ૧ | D.Y.ED 01 | યોગ વિજ્ઞાન-૨ Yoga Science | ૩૦ | ૩૦ | ૭૦ | ૧૦૦ |
| ૨ | D.Y.ED 02 | યોગ અને શારિરક વિજ્ઞાન Yoga, Anatomy, Physioogy, Heath scient | ૩૦ | ૩૦ | ૭૦ | ૧૦૦ |
| ૩ | D.Y.ED 03 | યોગ અને માનસિક સ્વાસ્થ્ય, માનસોપચાર Yoga, Mental Health and Phychotheraphy | ૩૦ | ૩૦ | ૭૦ | ૧૦૦ |
| ૪ | D.Y.ED 04 | યોગપચાર, આયુર્વેદ, નિસર્ગોપચાર એક્યુપ્રેસર Yoga Therapy, Ayurvedic, Naturopath & Acu-pressure | ૩૦ | ૩૦ | ૭૦ | ૧૦૦ |
| ૫ | D.Y.ED 05 | કૌશલ્ય (યોગનું પ્રાયોગિક) Skill Yoga Preactical | ૪૦ | ૪૦ | ૧૬૦ | ૨૦૦ |
| | | પ્રોજેક્ટ વર્ક | ૧૦ | — | — | ૬૦૦ |

- ❖ શૈક્ષણિક પ્રવાસ : અભ્યાસ સંબંધિત સંસ્થાનો શૈક્ષણિક પ્રવાસ કરવો. દરેક માટે ફરજિયાત રહેશે અને અહેવાલ રજૂ કરવાનો રહેશે.
- ❖ પ્રોજેક્ટ વર્ક : અભ્યાસ સંબંધિત એક સૈધ્ધાંતિક વિષય અને એક પ્રાયોગિક વિષયનો પ્રોજેક્ટ લખી તૈયાર કરવાનો રહેશે.
- ❖ સૈધ્ધાંતિક વિભાગમાં આંતરિક મુલ્યાંકન નીચે પ્રમાણે કરવું.

૦૫ : ગુણ પ્રથમ કસોટી

૦૫ : ગુણ દ્વિતીય કસોટી

૦૫ : ગુણ શૈક્ષણિક અભ્યાસ પ્રવાસ અહેવાલ

૧૦ : ગુણ પ્રોજેક્ટ વર્ક (સૈધ્ધાંતિક-૧, પ્રાયોગિક-૧)

૦૫ : ગુણ સમય પાલન, સમૂહ કાર્ય : વ્યસનમુક્ત જીવનશૈલી (હેલ્થ ફિટનેશ સ્કોર)




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કોર્ષનું નામ : ડિપ્લોમા ઈન યોગ એજ્યુકેશન વેકેશનલ (Diploma in Yog Education) વોકેશનલ અભ્યાસક્રમ

- વિષય : ૧ યોગ વિજ્ઞાન / યોગદર્શન (સૈદ્ધાંતિક)
૧. યોગ વિદ્યાનો ઈતિહાસ અને પરિચય
 ૨. યમ નિયમ પરિચય
 ૩. આસન પરિચય
 ૪. પ્રાણાયમ પરિચય
 ૫. નાડીઓ અને પટકર્મોનો પરિચય
 ૬. પ્રત્યાહાર અને ધાર્ણા પરિચય
 ૭. ધ્યાન પરિચય, જ્ઞાન ભક્તિ, કર્મ
 ૮. ચક્રો, ગ્રંથિઓ, કુંડલિની મુદ્રા અને બંધ પરિચય
 ૯. યોગાભ્યાસ, સ્વાસ્થ્ય અને સુખ-શાંતિ
 ૧૦. સમર્થ શિક્ષક, સમર્થ રાષ્ટ્ર, ગુરૂ શિષ્ય પરંપરા

- વિષય : ૨ યોગ અને શરીર ક્રિયા વિજ્ઞાન/ આરોગ્ય વિજ્ઞાન
૧. શરીર વિજ્ઞાન, અસ્થિતંત્ર અને સ્નાયુતંત્રનો પરિચય
 ૨. પાચન, રૂધિરાભિસરણ અને શ્વસનતંત્રનો પરિચય
 ૩. આરોગ્ય વિજ્ઞાન પરિચય
 ૪. વ્યક્તિગત સ્વસ્થવૃત્ત : દિનચર્યા
 ૫. સામાજિક સ્વાસ્થ્ય
 ૬. ઉત્સર્ગતંત્ર, જ્ઞાનતંત્ર અને પ્રજનનતંત્રનું જ્ઞાન
 ૭. જ્ઞાનેન્દ્રિય અને અંતસ્ત્રાવી ગ્રંથિ પરિચય
 ૮. આહાર વિષયક જાણકારી
 ૯. પોષણ વિષયક જાણકારી
 ૧૦. ઋતુચર્યા પરિચય

- વિષય : ૩ યોગ અને માનસિક સ્વાસ્થ્ય / માનસોપચાર
૧. યોગ દર્શન પરિચય, શ્રીમદ્ ભગવદ્ ગીતા
 ૨. મન, તેનું રહસ્ય અને નિયંત્રણ
 ૩. બુદ્ધિ પરિચય
 ૪. માનસિક સ્વાસ્થ્ય (મેન્ટલ હેલ્થ)
 ૫. જાગૃત, સ્વપ્ન અને નિદ્રા પરિચય
 ૬. કર્મ પરિચય
 ૭. માનસિક વિકારોનો પરિચય
 ૮. માન સોપચાર




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- વિષય : ૪ રોગોચાર, આયુર્વેદ નિસર્ગોપચાર અને એક્યુપ્રેશર
૧. યોગના વિવિધ અંગો ધ્વારા ચિકિત્સાનું જ્ઞાન
 ૨. રોગ પરિચય અને યોગ ધ્વારા તેની ચિકિત્સા
 ૩. આયુર્વેદ પરિચય અને આયુર્વેદોપચાર
 ૪. નિસર્ગોપચાર પરિચય
 ૫. એક્યુપ્રેશર અને પ્રાથમિક સારવાર
 ૬. રોગ અને યોગોપચાર-૧
 ૭. રોગ અને યોગોપચાર-૨
 ૮. આયુર્વેદ ચિકિત્સા
 ૯. નિસર્ગોપચાર, સ્વરોપચાર (સંગીતોપચાર), પિરામીડ
 ૧૦. એક્યુપ્રેશર, રંગીન રશ્મિ ચિકિત્સા અને પ્રાથમિક સારવાર
 ૧૧. પ્રેક્ષાધ્યાન અને સ્વાસ્થ્ય
 ૧૨. મુદ્રાચિકિત્સા ધ્વારા રોગમુક્તિ

- વિષય : ૫ યોગ પ્રાયોગિક (કૌશલ્ય)
૧. યૌગિક શારીરક ક્રિયાઓ
 ૨. સૂર્યનમસ્કાર
 ૩. આસન (વિવિધ બેઠક/સ્થિતિ આધારીત)
 ૪. પ્રાણાયમ
 ૫. બંધ, મુદ્રા
 ૬. ષટ્ક્રિયાઓ
 ૭. ક્રિયાયોગ, કર્મયોગ
 ૮. આરોગ્યવર્ધક આસનો




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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

પરિપત્ર ક્રમાંક : ૧૯૧/૨૦૧૧

વિષય : પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશનના સેમેસ્ટર/સીબીસીએસ/ગ્રેડીંગ પેટર્નના નવા અભ્યાસક્રમ અને પરીક્ષા સ્કીમ અંગે..

આ યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રીને જણાવવાનું કે, આ યુનિવર્સિટીમાં તમામ વિદ્યાશાખાઓમાં સ્નાતક કક્ષાએ જૂન-૨૦૧૧ થી સેમેસ્ટર/સીબીસીએસ/ગ્રેડીંગ પેટર્ન દાખલ કરવામાં આવતા યોગ એજ્યુકેશન વિષયની તદ્દર્થ સમિતિએ ભલામણ કર્યાનુસાર પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશન નો સામેલ પરિશિષ્ટ પ્રમાણેનો નવો અભ્યાસક્રમ અને પરીક્ષા સ્કીમ જૂન-૨૦૧૧ થી ક્રમશઃ અમલમાં આવે તે રીતે એકડેમિક તેની તારીખ : ૦૫/૦૭/૨૦૧૧ ની સભાના ઠરાવ ક્રમાંક-૪૧ થી મંજૂર કરેલ છે. જેની સંબંધિતોને જાણ કરવામાં આવે છે.

નોંધ : આ અભ્યાસક્રમ યુનિવર્સિટીની વેબસાઈટ www.ngu.ac.in પર પણ ઉપલબ્ધ છે.

આ બાબતની અધ્યાપકશ્રીઓ તથા વિદ્યાર્થીઓને આપના સ્તરેથી જાણ કરવા વિનંતી છે.

કુલસચિવ વતી

બિડાણ : ઉપર મુજબ

જા.નં : એકે/અસ/૪૪૪/૨૦૧૧
યુનિવર્સિટી રોડ, પો.બો.નં.-૨૧
પાટણ-૩૮૪૨૬૫ (ઉ.ગુ.)
તારીખ : ૧૨/૦૭/૨૦૧૧

પ્રતિ,

૧. યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રી, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૨. ડૉ.જે.એચ.પંચોલી, (ડીનશ્રી-એજ્યુકેશન વિદ્યાશાખા) શિક્ષણશાસ્ત્ર, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૩. પરીક્ષા નિયામકશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૪. ગ્રંથપાલશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૫. ઈન્ચાર્જશ્રી, કોમ્પ્યુટર (રીઝલ્ટ) સેન્ટર, હેમ.ઉ.ગુ.યુનિવર્સિટી, પાટણ તરફ પરિણામના ઉપયોગ માટે તથા વેબ સાઈટ પર મૂકવા સારૂ.
૬. પ્રવેશ શાખા (એકેડેમિક), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ.
૭. મહેકમ શાખા, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ તરફ પરિપત્રની ફાઈલ અર્થે.




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પરિપત્ર ક્રમાંક : ૨૦૧/૨૦૧૧

વિષય : પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશનના નવા નામાભિધાન અંગે..

આ યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રીને જણાવવાનું કે, યોગ એજ્યુકેશન વિષયની તદ્દર્થ સમિતિના કન્વીનરશ્રીની દરખાસ્ત અને તે પરની ડીપાર્ટમેન્ટની ભલામણને ધ્યાને લઈ આ આ યુનિવર્સિટીમાં ચાલતા સ્નાતક પછીના એક વર્ષના ડીપ્લોમા ઈન યોગ એજ્યુકેશન ના કોર્ષને પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશન એવું નવું નામાભિધાન એકેડેમિક કાઉન્સિલ વતી માન.કુલપતિશ્રીએ મંજૂર કરેલ છે. જેની સંબંધિતોને જાણ કરવામાં આવે છે.

આ બાબતની અધ્યાપકશ્રીઓ તથા વિદ્યાર્થીઓને આપના સ્તરેથી જાણ કરવા વિનંતી છે.

કુલસચિવ વતી

જા.નં : એકે/અસ/૪૭૪૦/૨૦૧૧

યુનિવર્સિટી રોડ, પો.બો.નં.-૨૧

પાટણ-૩૮૪૨૬૫ (ઉ.ગુ.)

તારીખ : ૨૫/૦૭/૨૦૧૧

પ્રતિ,

૧. યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રી, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૨. ડૉ.જે.એચ.પંચોલી, (ડીનશ્રી-એજ્યુકેશન વિદ્યાશાખા) શિક્ષણશાસ્ત્ર, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૩. પરીક્ષા નિયામકશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૪. ગ્રંથપાલશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૫. ઈન્ચાર્જશ્રી, કોમ્પ્યુટર (રીઝલ્ટ) સેન્ટર, હેમ.ઉ.ગુ.યુનિવર્સિટી, પાટણ તરફ પરિણામના ઉપયોગ માટે તથા વેબ સાઈટ પર મૂકવા સારૂ.
૬. પ્રવેશ શાખા (એકેડેમિક), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ.
૭. અનુસ્નાતક પ્રશાખા (એકેડેમિક), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ.
૮. મહેકમ શાખા, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ તરફ પરિપત્રની ફાઈલ અર્થે.




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સેમેસ્ટર પદ્ધતિ ડી.વાય.એડ.અભ્યાસક્રમ જૂન-૨૦૧૧

(૧) પ્રવેશ પાત્રતા :

- (અ) હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટીની કોઈ પણ સ્નાતક પદવી અથવા અન્ય યુનિવર્સિટી તેમજ સમકક્ષી સ્નાતક પદવી ધરાવનાર વ્યક્તિ પ્રવેશને પાત્ર ગણાશે.
- (બ) પ્રત્યેક વર્ષે ૧૫ જૂનના રોજ ૧૮ વર્ષથી વધારે ઉંમરની વ્યક્તિ પ્રવેશપાત્ર ગણાશે.
- (ક) માન્ય દાકતરનું મેડીકલ ફિટનેશ પ્રમાણપત્ર જરૂરી.

(૨) પ્રવેશ પસંદગીમાં અગ્રીમતા :

- (અ) યોગાસન સ્પર્ધામાં રાજ્ય, રાષ્ટ્રીય કે આંતર રાષ્ટ્રીય કક્ષાએ ભાગ લીધેલ હોય.
- (બ) આંતર કોલેજ તેમજ આંતર યુનિવર્સિટી કક્ષાએ યોગાસન સ્પર્ધામાં ભાગ લીધેલ હોય.
- (ક) શ્રી લક્ષ્મીય યોગ સંસ્થામાં (લાઈફ મિશન) કાયાવરોહણ સંચાલિત વિવિધ યોગ અભ્યાસક્રમો પૂર્ણ કરેલા હોય.
- (ડ) પરંપરાગત યોગ સંસ્થાઓમાં યોગસંબંધિત તાલીમ કોર્સ કરેલ હોય.
- (ઈ) અન્ય યુનિવર્સિટી કે સંસ્થાઓમાં પ્રમાણપત્ર કોર્સ કરેલ હોય.
- (ઈ) વધુ શૈક્ષણિક લાયકાત અને અનુભવને ધ્યાને લેવા.

(૩) અભ્યાસક્રમની સમયાવધિ :

આ અભ્યાસક્રમ પૂર્ણ સમયનો અને શૈક્ષણિક વર્ષની સમય અવધિનો રહેશે અને શૈક્ષણિક સત્ર સેમીસ્ટર પદ્ધતિ ૧ અને ૨ માં વહેંચાયેલું હશે. યુનિવર્સિટીના ધારાધોરણ તેમજ વખતોવખત બદલાતા નિયમોનુસાર વિદ્યાર્થીઓને સૈધ્ધતિક અને પ્રાયોગિક વર્ગમાં હાજરી જરૂરી રહેશે.

(૪) અભ્યાસક્રમની વિદ્યાશાખા :

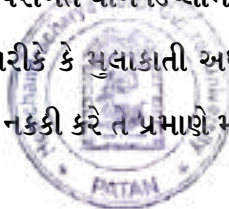
આ અભ્યાસક્રમ શિક્ષણની વિદ્યાશાખાના અધિકાર ક્ષેત્ર નીચે ચાલશે અને તેની અભ્યાસ સમિતિ અલગ રહેશે.

(૫) વિદ્યાર્થી સંખ્યા અને શિક્ષક-વિદ્યાર્થી પ્રમાણ અંગે :

અભ્યાસક્રમમાં વિદ્યાર્થીઓની સંખ્યા ૩૦ કે યુનિવર્સિટી દ્વારા જે ફાળવવામાં આવે તે મુજબ રહેશે અને તેનું પ્રમાણ ૧:૧૨ નું રહેશે. આ અંગે પ્રવર્તમાન નિયમોનો આદર કરાશે.

યોગ અભ્યાસ સ્થળ : પ્રદૂષણ મુક્ત શાંત વિસ્તારમાં તમામ માળખાકીય સુવિધા સાથે લાઈબ્રેરી, કોમ્પ્યુટર, પ્રાયોગિક પ્રયોગશાળા, ટીચિંગ લર્નીંગ માટે અદ્યતન સુવિધા તેમજ જરૂરી મહેકમ સ્ટાફ ફાળવવો જરૂરી.

યુનિવર્સિટી કે પરંપરાગત યોગ ડિપ્લોમાં પદવી ધારક કે સમકક્ષ સંબંધિત અભ્યાસક્રમ કરેલ તેમજ અનુભવ ધરાવતાં તજજ્ઞ તરીકે કે મુલાકાતી અધ્યાપકને નિયંત્રણ આપી શકાશે. મુલાકાતી અધ્યાપકશ્રીને યુનિવર્સિટી વખતોવખત જે નક્કી કરે તે પ્રમાણે માનદ પુરસ્કાર, ટી.એ., ડી.એ. ચૂકવવાનું રહેશે.



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(૬) વિદ્યાર્થી પ્રવેશ પદ્ધતિ :

યુનિવર્સિટી વખતોવખત જે માર્ગદર્શન આપશે તે મુજબ પ્રવેશ કાર્યવાહી કરવાની રહેશે.

(૭) પરીક્ષા આયોજન :

ડિપ્લોમાં ઈન યોગ એજ્યુકેશન (પી.જી.ડી.વાય.એડ) સત્રાંત પરીક્ષામાં પ્રથમ સેમીસ્ટરમાં સૈધ્ધાંતિક (થીયરી) અને કૌશલ્ય (યોગનું પ્રાયોગિક) તેમજ બીજા સેમીસ્ટરમાં સૈધ્ધાંતિક (થીયરી અને અધ્યાપન (પાઠનું પ્રાયોગિક) જે પરિશિષ્ટ મુજબ છે.

ડી.વાય.એડ.ના પ્રશિક્ષણાર્થીઓ માટે પરીક્ષાના દરેક વિભાગમાં બાહ્ય પરીક્ષા : યુનિવર્સિટી દ્વારા તેમજ આંતરિક પરીક્ષા : સંબંધિત વિભાગ એકમાં કોલેજ દ્વારા યુનિવર્સિટી નિયમાનુસાર યોજવાની રહેશે.

(૮) પરીક્ષામાં ઉત્તિર્ણ થવાનું ધોરણ અને વર્ગ :

(અ) સૈધ્ધાંતિક વિભાગમાં દરેક પ્રશ્નપત્ર દીઠ ૪૦% ગુણ ઉત્તિર્ણ થવા માટે જરૂરી છે.

(બ) પ્રાયોગિક વિભાગના કૌશલ્ય અને અધ્યાપન ક્ષેત્રમાં ૫૦% ગુણ ઉત્તિર્ણ થવા માટે જરૂરી ગણાશે.

(ક) યુનિવર્સિટીના નિયમાનુસાર ગ્રેડીંગ સીસ્ટમ પદ્ધતિ રહેશે.




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પી.જી.ડિપ્લોમા ઈન યોગ એજ્યુકેશન

(યોઈસ બેઈઝ ક્રેડીટ સીસ્ટમ) અંતર્ગત (ડી.વાય.એડ્)

સેમેસ્ટર-૧ અને ૨ માટે પરીક્ષાના દરેક વિષયના પ્રશ્નપત્રનું માળખું

| | | |
|--------|--|--------|
| એકમ -૧ | વિસ્તૃત નિબંધાત્મક પ્રશ્ન આંતરિક વિકલ્પ સાથે | ૧૬ ગુણ |
| એકમ -૨ | વિસ્તૃત નિબંધાત્મક પ્રશ્ન આંતરિક વિકલ્પ સાથે | ૧૬ ગુણ |
| એકમ -૩ | વિસ્તૃત નિબંધાત્મક પ્રશ્ન આંતરિક વિકલ્પ સાથે | ૧૬ ગુણ |
| એકમ -૪ | ટૂંકનોંધ લખો (ચારમાંથી કોઈ પણ બે) | ૧૨ ગુણ |
| એકમ -૫ | એમ.સી.કયુ.પ્રકારના ૧૦ પ્રશ્નો | ૧૦ ગુણ |

(દરેક પ્રશ્નમાં જવાબ માટે ત્રણ વિકલ્પમાંથી યોગ્ય જવાબ પસંદ કરી લખો)

- કુલ પાંચ પ્રશ્નોના સામાવિષ્ટ રહેશે. તે પૈકી પાંચમો પ્રશ્ન એમ.સી.કયુ.આર. પ્રકારનો રહેશે.
- એમ.સી.કયુ.પ્રકારના પ્રશ્નનાંક કુલ ૧૦ પ્રશ્નો (ફરજીયાત) પૂછવાના રહેશે. જેમાં દરેક પ્રશ્નમાં ત્રણ વિકલ્પો આપવામાં આવશે.

પાસ નોંધ :

- અભ્યાસક્રમમાં સામાવિષ્ટ દરેક એકમને સરખું વર્ઈટેજ આપવું.
- આંતરીક અને બાહ્ય પરીક્ષામાં પાસ થવા માટે ૪૦% ગુણ દરેક પ્રશ્નપત્રમાં લાવવા ફરજીયાત.




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પી.જી.ડી.પ્લોમા ઈન યોગ એજ્યુકેશન- P.G.D.Y.ED સેમેસ્ટર-૧

(અ) સૈધાંતિક (થીયરી) વિભાગ :

| ક્રમ | વિષય કોડ | વિષય નામ | ક્રેડિટ | અધ્યાપન કલાક/અઠવાડિયું | આંતરિક ગુણ | બાહ્ય ગુણ | કુલ ગુણ |
|----------------------|----------------|---------------------------------------|---------|---------------------------|---------------|--------------|------------|
| ૧. | P.G.D.Y.ED 101 | યોગ વિજ્ઞાન-૧ | ૪ | ૩ + ૧ = ૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ૨. | P.G.D.Y.ED 102 | યોગ અને શરીર રચના ક્રિયા વિજ્ઞાન | ૪ | ૩ + ૧ = ૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ૩. | P.G.D.Y.ED 103 | યોગ માનસિક સ્વાસ્થ્ય અને માનસોપચાર | ૪ | ૩ + ૧ = ૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ૪. | P.G.D.Y.ED 104 | યોગ અને આયુર્વેદોપચાર | ૪ | ૩ + ૧ = ૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ઈલેક્ટીવ (ગમે તે એક) | | | | | | | |
| ૫. | P.G.D.Y.ED 105 | ૧. વ્યક્તિત્વ વિકાસ અથવા | ૪ | ૩ + ૧ = ૪ | ૩૦ | ૭૦ | ૧૦૦ |
| | | ૨. રમત વિજ્ઞાન | ૪ | ૩ + ૧ = ૪ | ૩૦ | ૭૦ | ૧૦૦ |
| કુલ | | | ૨૦ | ૧૫ + ૫ = ૨૦ | ૧૫૦ | ૩૫૦ | ૫૦૦ |

(બ) પ્રાયોગિક-કૌશલ્ય વિભાગ :

| ક્રમ | વિષય કોડ | કૌશલ્ય જૂથ | ક્રેડિટ | અધ્યાપન કલાક/અઠવાડિયું | આંતરિક ગુણ | બાહ્ય ગુણ | કુલ ગુણ |
|------|----------------|------------------------------------|---------|---------------------------|---------------|--------------|------------|
| ૧ | P.G.D.Y.ED 106 | ૧. સૂર્યનમસ્કાર અને આસનો | ૪ | ૩ + ૧ = ૪ | ૨૦ | ૮૦ | ૧૦૦ |
| | | ૨. પ્રાણાયામ, બંધ મુદ્રા ષટકર્મ | ૨ | ૨ | ૧૦ | ૪૦ | ૫૦ |
| | | ૩. કર્મયોગ | ૨ | ૨ | ૧૦ | ૪૦ | ૫૦ |
| કુલ | | | ૮ | ૭ + ૧ = ૮ | ૪૦ | ૧૬૦ | ૨૦૦ |




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SEMESTER-I P.G.D.Y.ED-101 યોગ વિજ્ઞાન-૧

એકમ-૧ : યોગ વિદ્યાનો ઇતિહાસ અને પરિચય

- યોગ શબ્દની શ્રુત્પતિ, નિરૂકિત, પર્યાય અને યોગની વિભિન્ન વ્યાખ્યાઓ.
- યોગની ઉત્પત્તિ અને ઇતિહાસ : પ્રાચીનકાળથી અર્વાચીન કાળ સુધીનો વિકાસયાત્રા
- યોગનું પ્રયોજન-યોગની ઉપયોગીતા મહત્વ અને પ્રકારો.
- યોગના આઠ અંગો અને તેનો પરિચય.

એકમ-૨ : યોગભ્યાસ, સ્વાસ્થ્ય અને સુખ શાંતિ

- પ્રાર્થના, મંત્રજપ વગેરેની મન પર પડતી અસરોના વૈજ્ઞાનિક અભ્યાસ અને તે અંગે સુચનાઓ તેમજ સાવચેતીઓ.
- યોગના વિવિધ પ્રકારના બૌદ્ધિક અભ્યાસો-ચિંતન મનન, સ્મરણ, દર્શન અભિવ્યક્તિ વગેરેનો બૌદ્ધિક વિકાસમાં ફાળો.
- વિવિધ સમસ્યાઓના ઉકેલ માટે યોગાભ્યાસનો બૌદ્ધિક અભિગમ.
- સર્વધર્મ પરિચય મૂલ્ય શિક્ષણ માટે યોગની આવશ્યકતા.
- પ્રાયોગિક અભ્યાસક્રમમાં આસનોમાં દર્શાવેલ આસનોનો પરિચય તેની નામકરણ વિધિ, ફલશ્રુતિ(લાભ) તથા સાવચેતીઓ વગેરે સાથે અભ્યાસ.
- શરીરની પૂર્ણ તંદુરસ્તી, બુદ્ધિની કુશાગ્રતા અને સ્થિરતા તથા આત્મિક સુખ શાંતિની જરૂરીયાત.

એકમ-૩ : યમ-નિયમ પરિચય

- યમની વ્યાખ્યા, પરિચય અને સંખ્યમ વિષયક મતમનાંતર
- હઠયોગ પ્રદીપિકા વગેરેના ૧૦ યમો, મિતાહારનો પરિચય
- નિયમની વ્યાખ્યા પરિચય અને સંખ્યા વિષયક મતમનાંતર
- યાજ્ઞવલ્કય વગેરેના ૧૦ નિયમો
- યમ-નિયમના પરિપાલનથી થતા લાભ તેમજ શારીરિક અને માનસિક સ્વાસ્થ્ય રક્ષા અને રોગોપચારમાં તેનું મહત્વ.

એકમ-૪ : આસન પરિચય

- આસનની વ્યાખ્યા, પરિચય, સંખ્યા અને પ્રકાર
- આસનની મહત્તા અને ફલશ્રુતિ(લાભ) આધુનિક યુગમાં આસનની ઉપયોગિતા
- આસન અને વ્યાયામની તુલના પૂર્વતૈયારી, આસનની વ્યવસ્થા અને આસન અને તેનો શરીર પર પ્રભાવ અને આસન કરવા અંગેનો સુચનો
- સૂર્યનમસ્કાર પરિચય, મહત્વ, નામકરણ, મંત્ર, વિધિ અને ફલશ્રુતિનો અભ્યાસ



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એકમ -૫ : પ્રાણાયામ પરિચય

- પ્રણ નિરૂપણ અને પરિચય શરીરસ્થ વાયુઓ (મુખ્ય અને ગૌણ) નો પરિચય
- પ્રાણાયામ નિરૂપણ વ્યાખ્યા, મહિમા અને ફલશ્રુતિ
- પ્રાણાયામ અભ્યાસ યોગની અસિદ્ધિ અને પ્રાણાયામની અગત્યતા.
- પ્રાણાયામ અભ્યાસ યોગ્ય સ્થળ, સમય (પ્રતિદિન અને ઋતુઓ મુજબ) અને પ્રાણાયામનું પ્રમાણ -સમય મર્યાદા.
- પ્રાણાયામનો વૈજ્ઞાનિક દ્રષ્ટિએ અભ્યાસ, પ્રાણાયામ સાથે મંત્રજપ પ્રાણાયામ અને આહાર
- પ્રાણાયામના નામ, ભેદો, પ્રભેદો, દીર્ઘ પ્રાણાયામ (કુંભ રહિત સહિત) ઉચ્ચારિય અને અનુચ્ચારિત પ્રપવ, રામનામ સાથે શ્વસન અનુલામ વિલોમ (નાડી શુદ્ધિ પ્રાણાયામ, અષ્ટકુંભકો.

સંદર્ભ સાહિત્ય :

- (૧) સ્વામી કૃપાલ્વાનંદજી - આસન અને મુદ્ધા
- (૨) રાજર્ષિ મુનિજી - યોગ દર્શિકા ભાગ-૧ થી ૬ (લાઈફ મિશન, વડોદરા)
- (૩) યાગીન્દ્ર સ્વાત્મારામ - હઠયોગ પ્રદિપીકા
- (૪) સ્વામી કુવાલ્યાનંદન - પ્રાણાયામ
- (૫) સ્વામી શિવાનંદ - પ્રાણાયામ વિજ્ઞાન
- (૬) સ્વામી શિવાનંદ - યોગાસન
- (૭) બી.કે.એસ. અયંગર - યોગદિપીકા




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SEMESTER-I P.G.D.Y.ED-102 યોગ અને શરીર રચના-ક્રિયા વિજ્ઞાન

એકમ-૧ : શરીર વિજ્ઞાન અસ્થિતંત્ર તથા સ્નાયુતંત્રનો પરિચય

- શરીર રચના અને શરીર ક્રિયા વિજ્ઞાનની વ્યાખ્યા અને તેના જ્ઞાનની આવકશક્યતા.
- માનવશરીર પરિચય તંત્રની વ્યાખ્યા અને શરીરમાં આવેલા મુખ્ય તંત્રોના નામ કાર્યો.
- અસ્થિતંત્ર મુખ્ય અવયવો તેની રચના અને કાર્યો
- સ્નાયુતંત્ર મુખ્ય અવયવો તેની રચના અને તેના કાર્યો.
- અસ્થિતંત્ર અને સ્નાયુતંત્રના જ્ઞાનની યોગમાં ઉપયોગીતા.

એકમ-૨ : પ્રાચીન અને રૂઢિરાતિરાસણ પરિચય

- પાચનતંત્ર મુખ્ય અવયવો, તેના પરિચય રચના અને કાર્ય
- પાચનતંત્રના જ્ઞાનની યોગમાં ઉપયોગીતા
- રૂઢિરાતિરાસણ તંત્ર, મુખ્ય અવયવો તેના પરિચય રચના અને કાર્ય
- રૂઢિરાતિસરણ તંત્રના જ્ઞાનની યોગમાં ઉપયોગીતા.

એકમ-૩ : સ્વસનતંત્ર અને ઉત્સર્ગતંત્ર પરિચય

- સ્વસનતંત્ર, મુખ્ય અવયવો તેનો પરિચય, રચના અને કાર્ય
- સ્વસનતંત્રના જ્ઞાનની યોગમાં ઉપયોગીતા
- ઉત્સર્ગતંત્ર, મુખ્ય અવયવો, તેનો પરિચય, રચના અને કાર્ય
- ચયાપચાયની ક્રિયા

એકમ-૪ : જ્ઞાનતંત્ર અને પ્રજનનતંત્ર પરિચય

- નાડીતંત્ર ચેતાતંત્ર મુખ્ય અવયવો તેનો પરિચય, રચના અને કાર્ય
- જ્ઞાનતંત્રના જ્ઞાનની યોગમાં ઉપયોગીતા
- પ્રજનનતંત્ર, સ્ત્રી પુરુષના મુખ્ય જનન અવયવો રચના અને કાર્ય

એકમ-૫ : જ્ઞાનેન્દ્રિય અને અંતઃસ્ત્રાવી ગ્રંથી પરિચય

- નીચેની જ્ઞાનેન્દ્રિયો તથા અંતઃસ્ત્રાવી ગ્રંથીઓના પરિચય રચના અને કાર્ય (૧) નેત્ર અને કાર્ય (૨) નાક જીહવા (રસેન્દ્રિય અને ત્વચા)
- અંતઃસ્ત્રાવી ગ્રંથીઓ-૧ : શિર્ષસ્થ ગ્રંથી (પિચ્યુટરી ગ્રંથી), કંઠસ્થ ગ્રંથી (થાઈરોઈડ ગ્રંથી) ઉદ્યપિંડ (એડ્રિનલ ગ્લેન્ડ) અને પેરા થાઈરોઈડ ગ્રંથી.
- અંતઃસ્ત્રાવી ગ્રંથીઓ-૨ : આઈલેટસ ઓફ લેંગ્સ હેન્સ, બરોડ (પ્લીહા), વૃષ્ણ, શુક્રગ્રંથીઓ (ટેસ્ટોટેરોન) રજઃપિંડ (ઓવરીમાં) અને ઉરસ્થગ્રંથી (થાયમાસ ગ્લેન્ડ)
- યોગના બંધો, ક્રિયાઓ વગેરેની અસરોનો શરીર વિષયની દ્રષ્ટિએ અભ્યાસ
- જ્ઞાનેન્દ્રિય અને અંતઃસ્ત્રાવી ગ્રંથીઓના જ્ઞાનની યોગમાં ઉપયોગીતા



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સંદર્ભ સાહિત્ય

- (૧) પટેલ હરિભાઈ કે. – સ્વસ્થવૃત્ત , યુનિ ગ્રંથ નિર્માણ બોર્ડ
- (૨) દેરાસરી હરિત રણજીત – માનવ શરીર રચના ક્રિયા અને સ્વાસ્થ્ય વિજ્ઞાન
- (૩) ગાંધી જયશંકરદાસ ડી. – આહાર ચિકિત્સા
- (૪) વૈધ બાપાલાલ ગ. – દિનચર્યા
- (૫) વૈધ બાપાલાલ ગ. – માનવ આરોગ્ય (યુનિ.ગ્રંથ નિર્માણ બોર્ડ)
- (૬) મહર્ષિ અરવિંદ – ભૂતશુદ્ધિ ક્રિયા દ્વારા ચેતનાનો વિકાસ, મુંબઈ
- (૭) વિવેકાનંદ કેન્દ્ર – યોગ- અમદાવાદ
- (૮) Anatomy and Psysiology – Gore : Makran Madhukar




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SEMESTER-I P.G.D.Y.ED-103 યોગ અને માનસિક સ્વાસ્થ્ય, માનસોપચાર

એકમ-૧ : યોગદર્શન શાસ્ત્રનો પરિચય

- દર્શન શાસ્ત્રનો પરિચય
- યોગદર્શનનો પરિચય અને વિકાસ ક્રમ
- હઠયોગ પ્રદીપિકાનો દાર્શનિક અભ્યાસ
- હઠયોગ પ્રદીપિકાનો મનોવૈજ્ઞાનિક દષ્ટિએ અભ્યાસ
- ધરંડસંહિતાનો દાર્શનિક અને મનોવૈજ્ઞાનિક અભ્યાસ

એકમ-૨ : મન તેનું રહસ્ય અને નિયંત્રણ

- મનનો ઐતિહાસિક પરિચય, પ્રાપ્ત મતે મનની ઉત્પત્તિ, મનનો ગર્ભ પ્રવેશ અને અભિવ્યક્તિ
- મનની નિરૂક્તિ અને પર્યાય, મનના લક્ષણ અને ગુણ, મનના દોષ અને વિકાર
- મનના પ્રકાર, મન અને શરીરની એક બીજા ઉપર અસર

એકમ-૩ : બુદ્ધિ અને માનસિક સ્વાસ્થ્ય

- બુદ્ધિ વ્યાખ્યા નિરૂક્તિ, પર્યાય, લક્ષણ, પ્રકાર
- ધૃતિ પરિચય, ધૃતિ વિકૃતિના કારણ, લક્ષણ ઉપચાર
- સ્મૃતિ પરિચય, ઉત્પત્તિના કારણો વિકૃતિના કારણો, લક્ષણ તથા ઉપચાર
- યોગ દ્વારા બુદ્ધિ અને સ્મૃતિના વિકાસ

એકમ-૪ : માનસિક સ્વાસ્થ્ય

- માનસિક સ્વાસ્થ્યની વ્યાખ્યા, પરિચય, પ્રાપ્તિ અને ઉપાયો
- માનસિક સ્વાસ્થ્ય અને તંદુરસ્થ વ્યક્તિત્વ તેમજ સદાચાર
- સ્વાસ્થ્ય પર શુભ અશુભ વિચારોનો પ્રભાવ, આંતરાષ્ટ્રીય ચળવળ
- માનસિક વિકાસ અને રોગના કારણો, લક્ષણો અને ઉપચાર


એકમ-૫ : માનસોપચાર

- માનસોપચારનું સ્વરૂપ, વ્યાખ્યા અને ધ્યેય
- પ્રાપ્ત મનોવિકાર ચીકિત્સા અને મનોસોપચારનાં ઘટકોનો પરિચય
- વિવિધ માનસોપચાર પદ્ધતિ, વિશ્લેષણ, તબીબી પદ્ધતિ
- માનસોપચારનાં અસર કરતાં પરિબળો, યોગીક માનસોપચાર દ્વારા વિવિધ રોગોની ચિકિત્સા
- મેઘદ્વલ્ય પરિચય

સંદર્ભ સાહિત્ય

- (૧) ઠાકર વી.જે. - મન અને માનસ રોગ
- (૨) ભટ્ટ કુસુમબેન કે. - ચિકિત્સા મનોવિજ્ઞાન ભાગ - ૧, ૨
- (૩) પાઠક બાલકૃષ્ણ સાગર - માનસરોગ વિજ્ઞાન
- (૪) બદામી ચારુલતા એચ. - માનસોપચાર
- (૫) ચંસુમાન પ્રેમશંકર - આયુર્વેદિય મનોરોગ વિજ્ઞાન
- (૬) સ્વામી શિવાનંદ - મનનું રહસ્ય અને નિયંત્રણ
- (૭) પટેલ રજનીકાન્ત - મન સ્વસ્થા કેમ રખાય ? (ગુજરાત ગ્રંથરત્ન)




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SEMESTER-I P.G.D.Y.ED-104 યોગ અને આયુર્વેદોપચાર

એકમ-૧ : યોગોપચાર

- યોગોપચાર, યોગ એક ચિકિત્સા પદ્ધતિ તરીકે, આસન દ્વારા ચિકિત્સા, પ્રાણાયામ દ્વારા ધ્યાન, ષટકર્મ દ્વારા ચિકિત્સા

એકમ-૨ : રોગ પરિચય અને યોગ દ્વારા તેની ચિકિત્સા

- રોગોનો પરિચય, કારણો, લક્ષણો અને તેની યોગિક ચિકિત્સા, યોગ ચિકિત્સા પદ્ધતિ, મંદાગ્ની, અજીર્ણ, કબજિયાત, ગેસ, અમ્લપિત્ત
- ઊલટી, અતિસાર (ઝાડા), પ્રવાહિકા (મરડો) અને સંગ્રહણી
- કાસ(ઉધરસ), શ્વાસ (દમ) અને ક્ષય, રક્તચાપ (બ્લડપ્રેશર)
- સંધિવાત, આમવાત અને કટિગતવાત (કમરનો દુખાવો)
- સ્ત્રી રોગ: પ્રદર, રજો વિકાર વગેરે પુરુષરોગ : શુક્રમેહ-સ્વપ્ન દોષ વગેરે

એકમ-૩ : આયુર્વેદિક પરિચય અને આયુર્વેદોપચાર

- આયુર્વેદ પરિચય : આયુર્વેદની પરિભાષા-વ્યાખ્યા, પ્રયોજન અને વિશિષ્ટતા, અષ્ટાંગ આયુર્વેદ, આયુર્વેદના સિદ્ધાંત, પંચમહાભુત, નિદોષદવાદ, દોષદાતુ.
- રોગોની વ્યાખ્યા, પ્રકાર અને પરિચય
- આયુર્વેદ ચિકિત્સા સિદ્ધાંત ચિકિત્સા પ્રકાર (શોધન-શમન, યુક્તિ વગેરે)
- પડરસ પરિચય અને નીચેના રસોડાના ઔષધ દ્રવ્યોના સામાન્ય પરિચય, ગુણ, કર્મ તથા ઉપયોગ અદ્રખ, સુંઠ, મરી, પીપર-પીપરમુળ, હળદર, મેથી, અજમો, ધાણા, જીરૂ, લસણ, હીંગ, લવણ વગેરે.

એકમ-૪ : રોગ અને રોગોપચાર

- મુત્રકૃચ્છ, બહુમુત્ર (પ્રમેહ), અશ્મરી(પથરી), લકવો (પક્ષધાત), અર્દિત, કંપવાત, ગૃધસી(સાયટીકા) ગલદંડ, મેદોરોગ (સ્થૌલ્ય) મધુમેહ (ડાયાબિટીસ), વાતરક્ત(ગાઉટ) યકૃત વિકાર, આંત્રયુચ્છશોથ (એપેન્ડીસાઈટીસ), અર્થ (પાઈલ્સ) હરસ, હૃદયરોગ, સારણગાંઠ (હર્નિયા વિગેરે), માથાનો દુખાવો, પાયોરીયા કાકડા, ચામડીના રોગો, યૌન રોગો, માનસિક રોગો.

એકમ-૫ : આયુર્વેદિક ચિકિત્સા

- પંચકર્મના પૂર્વ કર્મ-સ્નેહન સ્વેદન
- પંચકર્મ, યોગ અને આયુર્વેદના ચિકિત્સા ઉપક્રમોની તુલનાપ પથ્ય અપથ્ય
- નીચેના ઘર આંગણાની સુલભ વનસ્પતિ દ્રવ્યોની સામાન્ય પરિચય, ગુણ કર્મ અને ઉપયોગ - તુલસી, ઘરો, ગળો, શતાવરી, લીમડો, ત્રિફળા, જેઠીમધ, સાટોડીયો, અશ્વગંધા, ગોખરું, દ્રાક્ષ.

સંદર્ભ સાહિત્ય

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| (૧) રાઠોડ નલિની અને અંશુમાન | - | યોગ અને યોગોપચાર |
| (૨) ગાંધી હરિકિશન ડી. | - | આસનચિકિત્સા, યોગ અને આરોગ્ય ભાગ ૧, ૨ |
| (૩) વૈદ્ય શોભન | - | રોજંદા જીવનમાં આયુર્વેદ, સચિત્ર આયુર્વેદ દર્શન ભાગ ૧ થી ૫ |
| (૪) યનસુમાન પ્રેમશંકર | - | પંચકર્મચિકિત્સાક |



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SEMESTER-I ઈલેક્ટીવ વિષય P.G.D.Y.ED-105/1 વ્યક્તિગત વિકાસ

- એકમ-૧ : નેતૃત્વ – પ્રથારાનિક, રાજકીય, ઉદ્યમી, નેતાની કેટેગરી પર ચર્ચા, નેતૃત્વશૈલી, કાર્યકર્તા, નેતાનો પ્રભાવ, નેતાના વર્તમાન મુદ્દાઓ, નેતાના વર્તનની જાણકારી, નેતાની વિશેષતાઓ, પ્રોત્સાહક નેતૃત્વ, વર્તમાન વાસ્તવિકતા, કર્મશીલ નેતા.
- એકમ-૨ : બંને વચ્ચેના સબંધો – વ્યવહાર વિશેષણ, શુદ્ધ વ્યવહાર વિશ્લેષણ, વિશ્લેષણના પ્રકાર, જીવનસ્થિતિનું ઉદાહરણ.
- એકમ-૩ : માહિતીની પધ્ધતિસર રચના – માહિતીનું મહત્વ, પ્રક્રિયા, વર્ગ, વહીવટ, માહિતી કૌશલ્યોમાં સુધારો, વહીવટી કૌશલ્યોમાં સુધારો, જ્ઞાન માહિતી અને આવડત, એ.બી.સી. માહિતી.
- એકમ-૪ : તણાવ સંચાલન – તણાવની વ્યાખ્યા, તણાવની લાગત, તણાવ વ્યક્તિગત, નોકરીનો તણાવ અને તેના સ્ત્રોત, વહીવટી પ્રોગ્રામમાં તણાવ, ટીમ બિલ્ડીંગ, નોકરીના તણાવના પરિણામો, શારીરિક સ્વાસ્થ્ય, વ્યવસાયિક નિર્ણયશક્તિ.
- એકમ-૫ : પ્રેરણા સ્ત્રોત – કાર્યશક્તિ વિકાસ, જીવન ઘડતર, કારકિર્દી ઘડતર, જીવન સફળતા અને આનંદ, વ્યક્તિગત વિકાસનાં પ્રેરક જીવનચરિત્રો.

સંદર્ભ ગ્રંથ :

- (૧) ચંદન જે.એસ. – ઓર્ગેનાઈઝલ બેશવીયર વીકાર પબ્લીશીંગ પ્રા.લી. ૧૯૯૪
- (૨) રોહિત પટેલ – વ્યક્તિત્વ વિકાસ, નવભારત સાહિત્ય
- (૩) જી.નારાયણ – જવાબદારી યુક્ત નેતૃત્વ, અમદાવાદ મેનેજમેન્ટ એશોશિએશન, અમદાવાદ
- (૪) વનરાજ માલવી – તમારા વ્યક્તિત્વને નવો ઓપ કેમ આપશો, ગ્રંથલોક, અમદાવાદ.




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SEMESTER-I ઈલેક્ટીવ વિષય P.G.D.Y.ED-105/2 રમત વિજ્ઞાન

- એકમ-૧ :** કસરતીય શરીશ વિજ્ઞાનની વ્યાખ્યા, અર્થ અને શારિરીક શિક્ષણ અને રમત ગમતમાં તેનું મહત્વ : શ્વસનતંત્ર, રૂધિરાભિસણ અને સ્નાયુતંત્ર ઉપર કસરતની અસર, પ્રાણવાયુનું દેવું.
- એકમ-૨ :** હલનચલન શાસ્ત્રની વ્યાખ્યા, અર્થ અને શારિરીક શિક્ષણ અને રમતગમતાનું તેનું મહત્વ શરીરની પ્રાથમિક સ્થિતિ, ગુરૂત્વમધ્યબિંદુ, ગુરૂત્વરેખા, ધરી અને સપાટી, અસ્થિર સાંધાઓ પર થતાં વિવિધ પ્રકારનાં હલનચલન.
- એકમ-૩ :** આહાર અને સમતોલ આહારની વ્યાખ્યા, અર્થ અને આહારનાં વિવિધ ઘટકો રમત તાલીમ અને સ્પર્ધા ખેલાડીઓ માટે યોગ્ય આહાર.
- એકમ-૪ :** રમત ગમતમાં થતી ઈજાઓના પ્રકારો, નાજુક પેશીની ઈજાઓ, હાડકાની ઈજાઓ, સાંધાની ઈજાઓ, રમત ગમતમાં થતી વિવિધ પ્રકારની ઈજાઓના અટકાવ અને સારવાર, શીતોપચાર
- એકમ-૫ :** માદક દવાઓ વ્યાખ્યા, અર્થ, ડોપિંગનો ઈતિહાસ, માદક દવાઓનું વર્ગીકરણ, માદક દવાઓની અસરો, ઉપાયો, ચિકિત્સાથેરાપીઓ, પેક્ષાધ્યાન વગેરે.

સંદર્ભ ગ્રંથો :

- (૧) હર્ષદભાઈ આઈ.પટેલ, ડૉ.ઉદાજી પરમાર – શારિરીક હલનચલન શાસ્ત્ર, અમદાવાદ, અનડા બુક ડીપો.
- (૨) હર્ષદભાઈ આઈ.પટેલ, નવીનચંદ્ર જે.યનિયારા— રમત વિજ્ઞાન અમદાવાદ ક્રિખ્ના ગ્રાફિક્સ ૧૯૯૬
- (૩) કાન્તીભાઈ રા.પટેલ – રમત ઔષધ વિજ્ઞાન, રમા પ્રકાશન, ગાંધીનગર.
- (૪) કાન્તીભાઈ રા.પટેલ – કસરતોની અસરો, રમા પ્રકાશન, ગાંધીનગર.




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SEMESTER-I P.G.D.Y.ED-106 પ્રાયોગિક કૌશલ્ય

આંતરીક મૂલ્યાંકન માળખું

| જુથ | કૌશલ્ય વિભાગ | આંતરીક ગુણ |
|-----|---|-------------------|
| ૧. | સુર્યનમસ્કાર અને આસનો : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, યોગોપનિષદ અનુસાર આસનો, ધોરણ ૫ થી ૧૨ ના યોગ અભ્યાસક્રમના આસનો શ્રી લકુલીશ યોગ ધિાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના આસનો | ૪ આસન × ૫ = ૨૦ |
| ૨. | પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, શિવ સંહિતા અનુસારની ક્રિયાઓ શ્રી લકુલીશ યોગ ધિાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ | ૨ ક્રિયા × ૫ = ૧૦ |
| ૩. | કર્મયોગ : પ્રાર્થના – મંત્ર, યજ્ઞ-દેવ પૂજન-સંધ્યા, આધ્યાત્મિક ભજન-ધૂન, સેવાગીત, રાષ્ટ્ર ભકિત ગીત અને એવરનેસ ગીત – ક્રિડા યોગ, નિત્યકર્મ, શ્રી લકુલીશ યોગ વિદ્યાલય, કાયાવરોહણ મુજબ | ૨ કર્મ × ૫ = ૧૦ |
| | કુલ ગુણ | ૪૦ |

નોંધ : આંતરીક પરિક્ષામાં પાસ થવા ૫૦% ગુણ લાવવા ફરજિયાત

બાહ્ય મૂલ્યાંકન માળખું :

| જુથ | કૌશલ્ય વિભાગ | આંતરીક ગુણ |
|-----|---|--|
| ૧. | સુર્યનમસ્કાર અને આસનો : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, યોગોપનિષદ અનુસાર આસનો, ધોરણ ૫ થી ૧૨ ના યોગ અભ્યાસક્રમના આસનો શ્રી લકુલીશ યોગ ધિાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના આસનો | ૧૬ આસન × ૫ = ૮૦ |
| ૨. | પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, શિવ સંહિતા અનુસારની ક્રિયાઓ શ્રી લકુલીશ યોગ ધિાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ | પ્રાણાયામ ૨ ક્રિયા × ૫ = ૧૦ ષટકર્મ નેતી ૧૦ ઘોતિ/નોલી ૧૦ કપાલભાતી ૦૫ ત્રાટક ૦૫ |
| ૩. | કર્મયોગ : પ્રાર્થના – મંત્ર, યજ્ઞ-દેવ પૂજન-સંધ્યા, આધ્યાત્મિક ભજન-ધૂન, સેવાગીત, રાષ્ટ્ર ભકિત ગીત અને એવરનેસ ગીત – ક્રિડા યોગ, નિત્યકર્મ, શ્રી લકુલીશ યોગ વિદ્યાલય, કાયાવરોહણ મુજબ | ૪ કર્મ × ૧૦ = ૪૦ |
| | કુલ ગુણ | ૧૬૦ |

નોંધ : બાહ્ય પરિક્ષામાં પાસ થવા ૫૦% ગુણ લાવવા ફરજિયાત




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PROGRAM CODE : HNGU 3057



**POST GRADUATE
DIPLOMA IN YOGA EDUCATION
(P.G.D.Y.ED.)**



શ્રીમત્
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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

પરિપત્ર ક્રમાંક : ૧૯૧/૨૦૧૧

વિષય : પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશનના સેમેસ્ટર/સીબીસીએસ/ગ્રેડીંગ પેટર્નના નવા અભ્યાસક્રમ અને પરીક્ષા સ્કીમ અંગે..

આ યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રીને જણાવવાનું કે, આ યુનિવર્સિટીમાં તમામ વિદ્યાશાખાઓમાં સ્નાતક કક્ષાએ જૂન-૨૦૧૧ થી સેમેસ્ટર/સીબીસીએસ/ગ્રેડીંગ પેટર્ન દાખલ કરવામાં આવતા યોગ એજ્યુકેશન વિષયની તદ્દર્થ સમિતિએ ભલામણ કર્યાનુસાર પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશન નો સામેલ પરિશિષ્ટ પ્રમાણેનો નવો અભ્યાસક્રમ અને પરીક્ષા સ્કીમ જૂન-૨૦૧૧ થી ક્રમશઃ અમલમાં આવે તે રીતે એકડેમિક તેની તારીખ : ૦૫/૦૭/૨૦૧૧ ની સભાના ઠરાવ ક્રમાંક-૪૧ થી મંજૂર કરેલ છે. જેની સંબંધિતોને જાણ કરવામાં આવે છે.

નોંધ : આ અભ્યાસક્રમ યુનિવર્સિટીની વેબસાઈટ www.ngu.ac.in પર પણ ઉપલબ્ધ છે.

આ બાબતની અધ્યાપકશ્રીઓ તથા વિદ્યાર્થીઓને આપના સ્તરેથી જાણ કરવા વિનંતી છે.

કુલસચિવ વતી

બિડાણ : ઉપર મુજબ

જા.નં : એકે/અસ/૪૪૪/૨૦૧૧
યુનિવર્સિટી રોડ, પો.બો.નં.-૨૧
પાટણ-૩૮૪૨૬૫ (ઉ.ગુ.)
તારીખ : ૧૨/૦૭/૨૦૧૧

પ્રતિ,

૧. યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રી, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૨. ડૉ.જે.એચ.પંચોલી, (ડીનશ્રી-એજ્યુકેશન વિદ્યાશાખા) શિક્ષણશાસ્ત્ર, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૩. પરીક્ષા નિયામકશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૪. ગ્રંથપાલશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૫. ઈન્ચાર્જશ્રી, કોમ્પ્યુટર (રીઝલ્ટ) સેન્ટર, હેમ.ઉ.ગુ.યુનિવર્સિટી, પાટણ તરફ પરિણામના ઉપયોગ માટે તથા વેબ સાઈટ પર મૂકવા સારૂ.
૬. પ્રવેશ શાખા (એકેડેમિક), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ.
૭. મહેકમ શાખા, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ તરફ પરિપત્રની ફાઈલ અર્થે.




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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

પરિપત્ર ક્રમાંક : ૨૦૧/૨૦૧૧

વિષય : પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશનના નવા નામાભિધાન અંગે..

આ યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રીને જણાવવાનું કે, યોગ એજ્યુકેશન વિષયની તદ્દર્થ સમિતિના કન્વીનરશ્રીની દરખાસ્ત અને તે પરની ડીપાર્ટમેન્ટની ભલામણને ધ્યાને લઈ આ આ યુનિવર્સિટીમાં ચાલતા સ્નાતક પછીના એક વર્ષના ડીપ્લોમા ઈન યોગ એજ્યુકેશન ના કોર્ષને પી.જી.ડીપ્લોમા ઈન યોગ એજ્યુકેશન એવું નવું નામાભિધાન એકેડેમિક કાઉન્સિલ વતી માન.કુલપતિશ્રીએ મંજૂર કરેલ છે. જેની સંબંધિતોને જાણ કરવામાં આવે છે.

આ બાબતની અધ્યાપકશ્રીઓ તથા વિદ્યાર્થીઓને આપના સ્તરેથી જાણ કરવા વિનંતી છે.

કુલસચિવ વતી

જા.નં : એકે/અસ/૪૭૪૦/૨૦૧૧

યુનિવર્સિટી રોડ, પો.બો.નં.-૨૧

પાટણ-૩૮૪૨૬૫ (ઉ.ગુ.)

તારીખ : ૨૫/૦૭/૨૦૧૧

પ્રતિ,

૧. યુનિવર્સિટીના યોગ ડીપાર્ટમેન્ટના કો-ઓર્ડીનેટરશ્રી, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૨. ડૉ.જે.એચ.પંચોલી, (ડીનશ્રી-એજ્યુકેશન વિદ્યાશાખા) શિક્ષણશાસ્ત્ર, હે.ઉ.ગુ.યુનિવર્સિટી, પાટણ
૩. પરીક્ષા નિયામકશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૪. ગ્રંથપાલશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ (પાંચ નકલ)
૫. ઈન્ચાર્જશ્રી, કોમ્પ્યુટર (રીઝલ્ટ) સેન્ટર, હેમ.ઉ.ગુ.યુનિવર્સિટી, પાટણ તરફ પરિણામના ઉપયોગ માટે તથા વેબ સાઈટ પર મૂકવા સારૂ.
૬. પ્રવેશ શાખા (એકેડેમિક), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ.
૭. અનુસ્નાતક પ્રશાખા (એકેડેમિક), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ.
૮. મહેકમ શાખા, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ તરફ પરિપત્રની ફાઈલ અર્થે.




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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

સેમેસ્ટર પદ્ધતિ ડી.વાય.એડ.અભ્યાસક્રમ જૂન-૨૦૧૧

(૧) પ્રવેશ પાત્રતા :

- (અ) હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટીની કોઈ પણ સ્નાતક પદવી અથવા અન્ય યુનિવર્સિટી તેમજ સમકક્ષી સ્નાતક પદવી ધરાવનાર વ્યક્તિ પ્રવેશને પાત્ર ગણાશે.
- (બ) પ્રત્યેક વર્ષે ૧૫ જૂનના રોજ ૧૮ વર્ષથી વધારે ઉંમરની વ્યક્તિ પ્રવેશપાત્ર ગણાશે.
- (ક) માન્ય દાકતરનું મેડીકલ ફિટનેશ પ્રમાણપત્ર જરૂરી.

(૨) પ્રવેશ પસંદગીમાં અગ્રીમતા :

- (અ) યોગાસન સ્પર્ધામાં રાજ્ય, રાષ્ટ્રીય કે આંતર રાષ્ટ્રીય કક્ષાએ ભાગ લીધેલ હોય.
- (બ) આંતર કોલેજ તેમજ આંતર યુનિવર્સિટી કક્ષાએ યોગાસન સ્પર્ધામાં ભાગ લીધેલ હોય.
- (ક) શ્રી લક્ષ્મીય યોગ સંસ્થામાં (લાઈફ મિશન) કાયાવરોહણ સંચાલિત વિવિધ યોગ અભ્યાસક્રમો પૂર્ણ કરેલા હોય.
- (ડ) પરંપરાગત યોગ સંસ્થાઓમાં યોગસંબંધિત તાલીમ કોર્સ કરેલ હોય.
- (ઈ) અન્ય યુનિવર્સિટી કે સંસ્થાઓમાં પ્રમાણપત્ર કોર્સ કરેલ હોય.
- (ઈ) વધુ શૈક્ષણિક લાયકાત અને અનુભવને ધ્યાને લેવા.

(૩) અભ્યાસક્રમની સમયાવધિ :

આ અભ્યાસક્રમ પૂર્ણ સમયનો અને શૈક્ષણિક વર્ષની સમય અવધિનો રહેશે અને શૈક્ષણિક સત્ર સેમીસ્ટર પદ્ધતિ ૧ અને ૨ માં વહેંચાયેલું હશે. યુનિવર્સિટીના ધારાધોરણ તેમજ વખતોવખત બદલાતા નિયમોનુસાર વિદ્યાર્થીઓને સૈધ્ધતિક અને પ્રાયોગિક વર્ગમાં હાજરી જરૂરી રહેશે.

(૪) અભ્યાસક્રમની વિદ્યાશાખા :

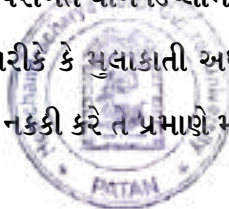
આ અભ્યાસક્રમ શિક્ષણની વિદ્યાશાખાના અધિકાર ક્ષેત્ર નીચે ચાલશે અને તેની અભ્યાસ સમિતિ અલગ રહેશે.

(૫) વિદ્યાર્થી સંખ્યા અને શિક્ષક-વિદ્યાર્થી પ્રમાણ અંગે :

અભ્યાસક્રમમાં વિદ્યાર્થીઓની સંખ્યા ૩૦ કે યુનિવર્સિટી દ્વારા જે ફાળવવામાં આવે તે મુજબ રહેશે અને તેનું પ્રમાણ ૧:૧૨ નું રહેશે. આ અંગે પ્રવર્તમાન નિયમોનો આદર કરાશે.

યોગ અભ્યાસ સ્થળ : પ્રદૂષણ મુક્ત શાંત વિસ્તારમાં તમામ માળખાકીય સુવિધા સાથે લાઈબ્રેરી, કોમ્પ્યુટર, પ્રાયોગિક પ્રયોગશાળા, ટીચિંગ લર્નીંગ માટે અદ્યતન સુવિધા તેમજ જરૂરી મહેકમ સ્ટાફ ફાળવવો જરૂરી.

યુનિવર્સિટી કે પરંપરાગત યોગ ડિપ્લોમાં પદવી ધારક કે સમકક્ષ સંબંધિત અભ્યાસક્રમ કરેલ તેમજ અનુભવ ધરાવતાં તજજ્ઞ તરીકે કે મુલાકાતી અધ્યાપકને નિયંત્રણ આપી શકાશે. મુલાકાતી અધ્યાપકશ્રીને યુનિવર્સિટી વખતોવખત જે નક્કી કરે તે પ્રમાણે માનદ પુરસ્કાર, ટી.એ., ડી.એ. ચૂકવવાનું રહેશે.



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(૬) વિદ્યાર્થી પ્રવેશ પદ્ધતિ :

યુનિવર્સિટી વખતોવખત જે માર્ગદર્શન આપશે તે મુજબ પ્રવેશ કાર્યવાહી કરવાની રહેશે.

(૭) પરીક્ષા આયોજન :

ડિપ્લોમાં ઈન યોગ એજ્યુકેશન (પી.જી.ડી.વાય.એડ) સત્રાંત પરીક્ષામાં પ્રથમ સેમીસ્ટરમાં સૈધ્ધાંતિક (થીયરી) અને કૌશલ્ય (યોગનું પ્રાયોગિક) તેમજ બીજા સેમીસ્ટરમાં સૈધ્ધાંતિક (થીયરી અને અધ્યાપન (પાઠનું પ્રાયોગિક) જે પરિશિષ્ટ મુજબ છે.

ડી.વાય.એડ.ના પ્રશિક્ષણાર્થીઓ માટે પરીક્ષાના દરેક વિભાગમાં બાહ્ય પરીક્ષા : યુનિવર્સિટી દ્વારા તેમજ આંતરિક પરીક્ષા : સંબંધિત વિભાગ એકમાં કોલેજ દ્વારા યુનિવર્સિટી નિયમાનુસાર યોજવાની રહેશે.

(૮) પરીક્ષામાં ઉત્તિર્ણ થવાનું ધોરણ અને વર્ગ :

(અ) સૈધ્ધાંતિક વિભાગમાં દરેક પ્રશ્નપત્ર દીઠ ૪૦% ગુણ ઉત્તિર્ણ થવા માટે જરૂરી છે.

(બ) પ્રાયોગિક વિભાગના કૌશલ્ય અને અધ્યાપન ક્ષેત્રમાં ૫૦% ગુણ ઉત્તિર્ણ થવા માટે જરૂરી ગણાશે.

(ક) યુનિવર્સિટીના નિયમાનુસાર ગ્રેડીંગ સીસ્ટમ પદ્ધતિ રહેશે.




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પી.જી.ડિપ્લોમા ઈન યોગ એજ્યુકેશન

(યોઈસ બેઈઝ ક્રેડીટ સીસ્ટમ) અંતર્ગત (ડી.વાય.એડ્)

સેમેસ્ટર-૧ અને ૨ માટે પરીક્ષાના દરેક વિષયના પ્રશ્નપત્રનું માળખું

| | | |
|--------|--|--------|
| એકમ -૧ | વિસ્તૃત નિબંધાત્મક પ્રશ્ન આંતરિક વિકલ્પ સાથે | ૧૬ ગુણ |
| એકમ -૨ | વિસ્તૃત નિબંધાત્મક પ્રશ્ન આંતરિક વિકલ્પ સાથે | ૧૬ ગુણ |
| એકમ -૩ | વિસ્તૃત નિબંધાત્મક પ્રશ્ન આંતરિક વિકલ્પ સાથે | ૧૬ ગુણ |
| એકમ -૪ | ટૂંકનોંધ લખો (ચારમાંથી કોઈ પણ બે) | ૧૨ ગુણ |
| એકમ -૫ | એમ.સી.કયુ.પ્રકારના ૧૦ પ્રશ્નો | ૧૦ ગુણ |

(દરેક પ્રશ્નમાં જવાબ માટે ત્રણ વિકલ્પમાંથી યોગ્ય જવાબ પસંદ કરી લખો)

- કુલ પાંચ પ્રશ્નોના સામાવિષ્ટ રહેશે. તે પૈકી પાંચમો પ્રશ્ન એમ.સી.કયુ.આર. પ્રકારનો રહેશે.
- એમ.સી.કયુ.પ્રકારના પ્રશ્નનાંક કુલ ૧૦ પ્રશ્નો (ફરજીયાત) પૂછવાના રહેશે. જેમાં દરેક પ્રશ્નમાં ત્રણ વિકલ્પો આપવામાં આવશે.

પાસ નોંધ :

- અભ્યાસક્રમમાં સામાવિષ્ટ દરેક એકમને સરખું વર્ઈટેજ આપવું.
- આંતરીક અને બાહ્ય પરીક્ષામાં પાસ થવા માટે ૪૦% ગુણ દરેક પ્રશ્નપત્રમાં લાવવા ફરજીયાત.




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ડિપ્લોમા ઈન યોગ એજ્યુકેશન- P.G.D.Y.ED સેમેસ્ટર-૨

(અ) સૈધાંતિક (થીયરી) વિભાગ :

| ક્રમ | વિષય કોડ | વિષય નામ | ક્રેડિટ | અધ્યાપન કલાક/અઠવાડીયું | આંતરિક ગુણ | બાહ્ય ગુણ | કુલ ગુણ |
|----------------------|----------------|--|---------|---------------------------|---------------|--------------|------------|
| ૧. | P.G.D.Y.ED 201 | યોગ વિજ્ઞાન-૨ | ૪ | ૩+૧=૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ૨. | P.G.D.Y.ED 202 | યોગ અને આરોગ્ય વિજ્ઞાન | ૪ | ૩+૧=૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ૩. | P.G.D.Y.ED 203 | નિરાર્ગોપચાર એક્યુપ્રેશર અને પ્રાથમિક સારવાર | ૪ | ૩+૧=૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ૪. | P.G.D.Y.ED 204 | યોગ શિક્ષણમાં પદ્ધતિઓ અને મેનેજમેન્ટ | ૪ | ૩+૧=૪ | ૩૦ | ૭૦ | ૧૦૦ |
| ઈલેક્ટીવ (ગમે તે એક) | | | | | | | |
| ૫. | P.G.D.Y.ED 205 | ૧. યુવા અને સામાજિક કલ્યાણ અથવા | ૪ | ૩+૧=૪ | ૩૦ | ૭૦ | ૧૦૦ |
| | | ૨. પર્યાવરણ અને આપત્તિ વ્યવસ્થાપન | ૪ | ૩+૧=૪ | ૩૦ | ૭૦ | ૧૦૦ |
| કુલ | | | ૨૦ | ૧૫+૫=૨૦ | ૧૫૦ | ૩૫૦ | ૫૦૦ |

(બ) પ્રાયોગિક- પાઠ આયોજન:

| ક્રમ | વિષય કોડ | પાઠ આયોજન જૂથ | ક્રેડિટ | અધ્યાપન કલાક/અઠવાડીયું | આંતરિક ગુણ | બાહ્ય ગુણ | કુલ ગુણ |
|------|----------------|-------------------------------------|---------|---------------------------|---------------|--------------|------------|
| ૧ | P.G.D.Y.ED 206 | ૧. આસન | ૪ | ૩+૧=૪ | ૩૦ | ૭૫ | ૧૦૫ |
| | | ૨. ષ્ટકર્મ, પ્રાણાયામ, બંધમુદ્રા | ૪ | ૨ | ૨૦ | ૭૫ | ૯૫ |
| કુલ | | | ૮ | | ૫૦ | ૧૫૦ | ૨૦૦ |




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સેમેસ્ટર પદ્ધતિ ડી.વાય.એડ.અભ્યાસક્રમ જૂન-૨૦૧૧

(૧) **પ્રવેશ પાત્રતા :**

- (અ) હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટીની કોઈ પણ સ્નાતક પદવી અથવા અન્ય યુનિવર્સિટી તેમજ સમકક્ષી સ્નાતક પદવી ધરાવનાર વ્યક્તિ પ્રવેશને પાત્ર ગણાશે.
- (બ) પ્રત્યેક વર્ષે ૧૫ જૂનના રોજ ૧૮ વર્ષથી વધારે ઉંમરની વ્યક્તિ પ્રવેશપાત્ર ગણાશે.
- (ક) માન્ય દાકતરનું મેડીકલ ફિટનેશ પ્રમાણપત્ર જરૂરી.

(૨) **પ્રવેશ પસંદગીમાં અગ્રીમતા :**

- (અ) યોગાસન સ્પર્ધામાં રાજ્ય, રાષ્ટ્રીય કે આંતર રાષ્ટ્રીય કક્ષાએ ભાગ લીધેલ હોય.
- (બ) આંતર કોલેજ તેમજ આંતર યુનિવર્સિટી કક્ષાએ યોગાસન સ્પર્ધામાં ભાગ લીધેલ હોય.
- (ક) શ્રી લક્ષ્મીય યોગ સંસ્થામાં (લાઈફ મિશન) કાયાવરોહણ સંચાલિત વિવિધ યોગ અભ્યાસક્રમો પૂર્ણ કરેલા હોય.
- (ડ) પરંપરાગત યોગ સંસ્થાઓમાં યોગસંબંધિત તાલીમ કોર્સ કરેલ હોય.
- (ઈ) અન્ય યુનિવર્સિટી કે સંસ્થાઓમાં પ્રમાણપત્ર કોર્સ કરેલ હોય.
- (ઈ) વધુ શૈક્ષણિક લાયકાત અને અનુભવને ધ્યાને લેવા.

(૩) **અભ્યાસક્રમની સમયાવધિ :**

આ અભ્યાસક્રમ પૂર્ણ સમયનો અને શૈક્ષણિક વર્ષની સમય અવધિનો રહેશે અને શૈક્ષણિક સત્ર સેમીસ્ટર પદ્ધતિ ૧ અને ૨ માં વહેંચાયેલું હશે. યુનિવર્સિટીના ધારાધોરણ તેમજ વખતોવખત બદલાતા નિયમોનુસાર વિદ્યાર્થીઓને સૈધ્ધતિક અને પ્રાયોગિક વર્ગમાં હાજરી જરૂરી રહેશે.

(૪) **અભ્યાસક્રમની વિદ્યાશાખા :**

આ અભ્યાસક્રમ શિક્ષણની વિદ્યાશાખાના અધિકાર ક્ષેત્ર નીચે ચાલશે અને તેની અભ્યાસ સમિતિ અલગ રહેશે.

(૫) **વિદ્યાર્થી સંખ્યા અને શિક્ષક-વિદ્યાર્થી પ્રમાણ અંગે :**

અભ્યાસક્રમમાં વિદ્યાર્થીઓની સંખ્યા ૩૦ કે યુનિવર્સિટી દ્વારા જે ફાળવવામાં આવે તે મુજબ રહેશે અને તેનું પ્રમાણ ૧:૧૨ નું રહેશે. આ અંગે પ્રવર્તમાન નિયમોનો આદર કરાશે.

યોગ અભ્યાસ સ્થળ : પ્રદૂષણ મુક્ત શાંત વિસ્તારમાં તમામ માળખાકીય સુવિધા સાથે લાઈબ્રેરી, કોમ્પ્યુટર, પ્રાયોગિક પ્રયોગશાળા, ટીચિંગ લર્નીંગ માટે અદ્યતન સુવિધા તેમજ જરૂરી મહેકમ સ્ટાફ ફાળવવો જરૂરી.




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યુનિવર્સિટી કે પરંપરાગત યોગ ડિપ્લોમાં પદવી ધારક કે સમકક્ષ સંબંધિત અભ્યાસક્રમ કરેલ તેમજ અનુભવ ધરાવતાં તજજ્ઞ તરીકે કે મુલાકાતી અધ્યાપકને નિયંત્રણ આપી શકાશે. મુલાકાતી અધ્યાપકશ્રીને યુનિવર્સિટી વખતોવખત જે નક્કી કરે તે પ્રમાણે માનદ પુરસ્કાર, ટી.એ., ડી.એ. ચૂકવવાનું રહેશે.

(૬) **વિદ્યાર્થી પ્રવેશ પદ્ધતિ :**

યુનિવર્સિટી વખતોવખત જે માર્ગદર્શન આપશે તે મુજબ પ્રવેશ કાર્યવાહી કરવાની રહેશે.

(૭) **પરીક્ષા આયોજન :**

ડિપ્લોમાં ઈન યોગ એજ્યુકેશન (પી.જી.ડી.વાય.એડ) સત્રાંત પરીક્ષામાં પ્રથમ સેમીસ્ટરમાં સૈધ્ધાંતિક (થીયરી) અને કૌશલ્ય (યોગનું પ્રાયોગિક) તેમજ બીજા સેમીસ્ટરમાં સૈધ્ધાંતિક (થીયરી અને અધ્યાપન (પાઠનું પ્રાયોગિક) જે પરિશિષ્ટ મુજબ છે.

ડી.વાય.એડ.ના પ્રશિક્ષણાર્થીઓ માટે પરીક્ષાના દરેક વિભાગમાં બાહ્ય પરીક્ષા : યુનિવર્સિટી દ્વારા તેમજ આંતરિક પરીક્ષા : સંબંધિત વિભાગ એકમાં કોલેજ દ્વારા યુનિવર્સિટી નિયમાનુસાર યોજવાની રહેશે.

(૮) **પરીક્ષામાં ઉત્તિર્ણ થવાનું ધોરણ અને વર્ગ :**

(અ) સૈધ્ધાંતિક વિભાગમાં દરેક પ્રશ્નપત્ર દીઠ ૪૦% ગુણ ઉત્તિર્ણ થવા માટે જરૂરી છે.

(બ) પ્રાયોગિક વિભાગના કૌશલ્ય અને અધ્યાપન ક્ષેત્રમાં ૫૦% ગુણ ઉત્તિર્ણ થવા માટે જરૂરી ગણાશે.

(ક) યુનિવર્સિટીના નિયમાનુસાર ગ્રેડીંગ સીસ્ટમ પદ્ધતિ રહેશે.




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એકમ –૧ પ્રત્યાહાર અને ધારણા પરિચય

- પ્રત્યાહારની પરિભાષા, સ્વરૂપ અને તેનું ફલસ્વરૂપ, પ્રત્યાહાર ધ્વારા ઈન્દ્રિય નિગ્રહ, પંચ વિષયક પ્રત્યાહાર-પ્રત્યાહારના પ્રકાર, ધારણાની પરિભાષા, પરિચય અને તેનું ફળ ધારણા સિદ્ધીમાં પ્રાણાયામનું મહત્વ, ધારણાના ત્રણ દેશ, શરીરમાં પંચતત્વનું ક્ષેત્ર અને તેની ધારણાં.

એકમ –૨ ધ્યાન પરિચય

- ધ્યાન પરિભાષા, પરિચય, પ્રયોજન, મહત્વ અને તેના લાભ, ધ્યાનના પ્રકાર, ધ્યાનના સ્થાન, સમય અને પૂર્વ તૈયારી, સામાન્ય નિયમો અને વિધિ, ધ્યાનનો વૈજ્ઞાનિક અભ્યાસ, ધ્યાનનો વ્યવહારિક ઉપયોગ, ધ્યાન ધ્વારા પ્રાપ્ત થતી સિદ્ધીઓ અને મહત્વ, ધ્યાનની વિવિધ પદ્ધતિઓનો અભ્યાસ જેમ કે, વિપશ્યના ધ્યાન, આનાપાસતિ ધ્યાન, ભાવાવિત ધ્યાન, પ્રેક્ષાધ્યાન વગેરે, ધ્યાનનું ચિકિત્સાત્મક દ્રષ્ટિએ મહત્વ.

એકમ –૩ સમાધિ પરિચય

- સમાધિની પરિભાષા અને પરિચય, સમાધિના ભેદો-પ્રભેદો, સમાધિની અવસ્થાઓ અને નાદ પરિચય, યોગનું અંતિમ લક્ષ્ય-મોક્ષ (આત્મ દર્શન), શરીર-મન-બુદ્ધિનું પરમ સ્વાસ્થ્ય એટલે મોક્ષ (આત્મા દર્શન), આત્મા દર્શન, તેનું વ્યક્તિના સમગ્ર વિકાસમાં અંત કે દિવ્ય જીવનની શરૂઆત, અષ્ટ સિદ્ધિઓ

એકમ –૪ નાડીઓ અને ષટકર્મોનો પરિચય

- નાડીઓનો પરિચય, મુખ્ય નાડીઓ તથા નાડી શુદ્ધિનો હેતુ, નાડીશુદ્ધિના લક્ષણો, ષટકર્મોનો પરિચય, પ્રયોજન, ફલશ્રુતિ તથા તેનો સ્વાસ્થ્ય પર પ્રભાવ, ષટકર્મોનો ઉદ્દેશ, પ્રકાર (ભેદ-પ્રભેદ-સાથે) તથા ફલશ્રુતિ સહિત ચિકિત્સકીય અભ્યાસ અને પ્રયોગવિધિ, ઘૌતિ, બસ્તિ, નૈતિ, ત્રાટક, નૌતિ અને કપાલભાતિ

એકમ –૫ ચક્રો, ગ્રંથિઓ, કુંડલિની મુદ્રા અને બંધ પરિચય

- ચક્રોનો પરિચય, ગ્રંથિઓનો પરિચય, કુંડલિનીનો પરિચય, મુદ્રાઓનો પરિચય, બંધોનો પરિચય

સંદર્ભ સાહિત્ય

- (૧) મહર્ષિ અરવિંદ – ભૂતશુદ્ધિ ક્રિયા ધ્વારા ચેતનાનો વિકાસ, મહર્ષિ અરવિંદ ફાઉન્ડેશન, મુંબઈ વેબસાઈટ : www.pssmovement.org
- (૨) મહર્ષિ પત્રીજી – ધ્યાન આરોગ્ય વિજ્ઞાન પિરામીડ સ્પીરીચ્યુઅલ મુવમેન્ટ ઓફ ઈન્ડિયા
- (૩) રાજર્ષિ મુનિજી – યોગદર્શિકા ભાગ ૧ થી ૬
- (૪) સ્વામી કૃપાલ્વાનંદ – ધ્યાન વિજ્ઞાન
- (૫) સ્વામી શ્રી શિવાનંદ સરસ્વતી – ધ્યાન યોગ
- (૬) સ્વામી શ્રી શિવાનંદ સરસ્વતી – કુંડલીની યોગ
- (૭) સ્વ.નર્મદાશંકર પંડ્યા – પાતંજલ યોગ સૂત્ર




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એકમ –૧ આરોગ્ય વિજ્ઞાન પરિચય

- આરોગ્ય વિજ્ઞાનની વ્યાખ્યા અને તેના જ્ઞાનની આવશ્યકતા, સ્વસ્થન નિરૂકિત અને વ્યાખ્યા, આરોગ્યનું પ્રયોજન, આયુર્વેદમતાનુસાર સ્વાસ્થ્ય વિચાર, આરોગ્યના લક્ષણો વ્યક્તિગત અને સામાજિક સ્વસ્થ વિચાર, આરોગ્ય માટેના જરૂરી ઘટકોનો પરિચય-૧, હવા પરિચય, આવશ્યકતા, હવાનું સંગઠન શુદ્ધ હવા- અશુદ્ધ હવા કૃત્રિમ હવા, પાણી પરિચય, આવશ્યકતા, પાણીના પ્રકાર, પાણીની અશુદ્ધિઓ અને તેને શુદ્ધ કરવાની રીત વગેરે, સુર્ય પ્રકાશ, આરોગ્ય માટેના જરૂરી ઘટકોનો પરિચય-૨, આહાર, નિદ્રા, શ્રમ અને વિશ્રામ, પ્રસન્નતા

એકમ –૨ વ્યક્તિગત – સ્વસ્થવૃત્ત : દિનચર્યા

- દિનચર્યાની વ્યાખ્યા, પરિચય, અને તેનું મહત્વ, દિનચર્યાના અંગ, દિનચર્યા અંગ-૧ ઉત્થાન, પ્રાર્થના-આત્મ ચિંતન, ઉષ્ઃપાન, દંત ધાવન અને શૈયાદિ ક્રિયા, દિનચર્યા અંગ-૨, અભ્યંગપ વ્યાયામ, ઉદવર્તન અને સ્નાન, દિનચર્યા –૩, કેવલ ગંડૂષા, નસ્ય કર્ણપુરણ , વસ્ત્રધારણ, કેશપ્રસાદન, પાદુકા (પગરખા) ધારણ વગેરે, રાત્રી ચર્યા, નેત્ર-કર્ણ-દંત સ્વાસ્થ્ય રક્ષા.

એકમ –૩ સામાજિક સ્વાસ્થ્ય

- સદ્વૃત્ત (સદાચાર) અને યોગ, સ્વાચ્છતા, આવાસની વ્યવસ્થા, સંક્રમક (ચેપી) રોગોથી બચવાના ઉપાયો, વૈજ્ઞાનિક દ્રષ્ટિકોણથી આસનો, ક્રિયાઓ તથા પ્રાણાયામનો અભ્યાસ

એકમ –૪ આહાર વિમર્શ અને પોષણ પરિચય

- આહારની વ્યાખ્યા, ઉદ્દેશ અને મહત્વ, આહારના ઘટકો-૧, કાર્બોહાઈડ્રેટ, પ્રોટીન, ફેટ, આહારના ઘટકો-૨, ક્ષાર અને વિટામીન, આહાર વિધિ-નિયમો, વિરૂઢ્ધાહાર, આહાર દૂલ્ય (પ્રાણીજ, વનસ્પતિજ)
- પોષણની વ્યાખ્યા, પરિચય અને મહત્વ, સમતોલ આહાર, આહાર ઘટક, પ્રમાણ વિચાર, પોષણ:વય-લિંગ-વ્યવસાય, દેશ/સ્થાન મુજબ આહાર સમ્યક પોષણ અને વિકાસ (શારીરિક-માનસિક-સામાજિક-આર્થિક), પોષણની ખામી (કુપોષણ) અને તે જન્યરોગ તથા ઉપચાર

એકમ –૫ ઋતુચર્યા પરિચય

- ઋતુની વ્યાખ્યા, ઋતુ વિભાજન-સંખ્યા-નામ-ઋતુચર્યા અને તેનું મહત્વ, શિશિર, વસંત અને ગ્રીષ્મ ઋતુચર્યા, વર્ષા, શરદ અને હેમંત ઋતુચર્યા, ઋતુસંબંધિ પર્વો અને સ્વાસ્થ્ય, બ્રહ્મચર્ય અને સ્વાસ્થ્ય રક્ષા

પ્રાયોગિક કાર્ય, સ્પારોમીટરના ઉપયોગથી શ્વસન શક્તિ માપવી, હાથની નાડીના ધબકારા માપવા-યોગાસન પહેલા અને પછી નમનિયતા તેમન સહનશક્તિ માપવી અને વિદ્યાર્થીઓને વૈજ્ઞાનિક સમજ આપવી.




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સંદર્ભ સાહિત્ય

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| (૧) | પટેલ હરિભાઈ કે. | — | સ્વસ્થતૃત, યુનિ.ગ્રંથ નિર્માણ બોર્ડ |
| (૨) | દેરાસરી હરિત રણજીત | — | માનવ શરીર રચના, શરીર ક્રિયા અને સ્વાસ્થ્ય વિજ્ઞાન |
| (૩) | ગાંધી જયશંકરદાસ ડી. | — | આહાર ચિકિત્સા |
| (૪) | વૈદ્ય બાપાલાલ ગ. | — | દિનચર્યા |
| (૫) | વૈદ્ય બાપાલાલ ગ. | — | માનવ આરોગ્ય (યુનિ.ગ્રંથ નિર્માણ બોર્ડ) |
| (૬) | મહર્ષિ અરવિંદ | — | ભૂતશુદ્ધિ ક્રિયા ધ્વારા ચેતનાનો વિકાસ, મુંબઈ |
| (૭) | વિવેકાનંદ કેન્દ્ર | — | યોગ-અમદાવાદ |
| (૮) | આચાર્ય મહાપ્રજ્ઞ | — | જીવન વિજ્ઞાન સ્વસ્થ સમાજ સંરચના |
| (૯) | ડૉ.હરિકિશન ડી.ગાંધી | — | આહાર વિહાર અને આરોગ્ય |
| (૧૦) | સ્વામી સત્યાનંદ સરસ્વતી | — | સૂર્યનમસ્કાર, યોગ પબ્લીકેશન |




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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

SEMESTER – II P.G.D.Y.Ed.203 – નિસર્ગોપચાર, એક્યુપ્રેશર અને પ્રાથમિક સારવાર

- એકમ –૧ નિસર્ગોપચાર પરિચય
- નિસર્ગોપચાર, પરિચય અને ચિકિત્સા સિદ્ધાંત, નિસર્ગોપચાર ચિકિત્સાના અંગો (ઉપાયો) સુર્યસ્નાન અને વાયુસ્નાન, માલિશ અને વ્યાયામ, ઉપવાસ અને વિશ્રામ,
- એકમ –૨ એક્યુપ્રેશર સારવાર પરિચય
- એક્યુપ્રેશર પરિચય અને સિદ્ધાંત, એક્યુપ્રેશર અને સ્વાસ્થ્ય રક્ષા, મેરીડીયન્સ અને દબાણ બિંદુઓ, ઉપરોક્ત એકમ-૧ના રોગોની નિસર્ગોપચાર ચિકિત્સા
- એકમ –૩ નિસર્ગોપચાર પ્રકાર અને પદ્ધતિ
- જલોપચાર, માટી ધ્વારા ઉપચાર, એનિમા, આહાર ચિકિત્સા : રસાહાર, ફલાહાર, દુગ્ધાહાર, પકવ-અપકવ આહાર વગેરે, ઉપરોક્ત એકમ-૨ના રોગોની નિસર્ગોપચારીક ચિકિત્સા
- એકમ –૪ રોગ પરિચય અને કુદરતી ઉપચાર એક્યુપ્રેશર સારવાર
- રોગોનો પરિચય, કારણો, લક્ષણો અને તેની નિસર્ગોપચાર ચિકિત્સા, મંદાગ્ની અજીર્ણ, કબજિયાત, ગેસ, અમ્લપિત્ત ઉલટી, અતિસાર (ઝાડા), પ્રવાહિકા (મરડો) અને સંગ્રહણી કાસ (ઉધરસ), શ્વાસ(દમ) અને ક્ષય, રક્તચાપ (બ્લડ પ્રેશર) સંધિવાત, આમવાત, અને કટિગતવાત (કમરનો દુખાવો) સ્ત્રી રોગ:પ્રદર, રજો વિકાર વગેરે પુરુષ રોગ: શુક્રમેહ-સ્વપ્નદોષ વગેરે
- એકમ –૫ પિરામીડ, રંગચિકિત્સા, સંગીત ચિકિત્સા અને પ્રાથમિક સારવાર
- પિરામીડ પરિચય અને તેની ઉપયોગીતા, સારવાર
 - રંગચિકિત્સા પદ્ધતિનો પરિચય અને તેના ધ્વારા રોગ નિવારણ
 - સંગીત ચિકિત્સા પરિચય અને તેની ઉપયોગીતા.
 - પ્રાથમિક સારવારની વ્યાખ્યા, પ્રયોજન-મહત્વ અને પરિચય, પ્રાથમિક સારવારના પાયાના સિદ્ધાંતો, નિયમો અને સુચનો, પ્રાથમિક સારવાર, કરનાર વ્યક્તિના ગુણ, પાટાના ઉપયોગ, પાટાના પ્રકાર અને પાટા બાંધવાની રીત, કૃત્રિમ શ્વાસોચ્છવાસ, નીચેના અકસ્માતોની પ્રાથમિક સારવાર, દાજી જવું, ડુબી જવું, લુ લાગવી, બેભાન થવું, વાઈ આવવી, નીચેના અકસ્માતોની પ્રાથમિક સારવાર, આઘાત લાગવો, અસ્થિભંગ-સંધિભંગ થવો, વીજળીનો આંચકો લાગવો, રક્તસ્ત્રાવ થવો વગેરે

નોંધ : સંબંધિત વિષયની સંસ્થાની મુલાકાત લેવી અને અભ્યાસ કરવો.

દા.ત.શંકુઝ, નેચરલ હેલ્થ સેન્ટર, અમીપુરા, મહેસાણા

સંદર્ભ સાહિત્ય




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| (૧) ચૌધરી માધવ | — | આહાર એજ ઔષધ |
| (૨) સ્વર્ણ પ્રસાદ | — | કુદરતી ઉપચાર |
| (૩) દેવેન્દ્ર વોરા | — | તંદુરસ્તી તમારા હાથમાં |
| (૪) રઘુનાથ ગંગારામ | — | અકસ્માતમાં પ્રાથમિક સારવાર (ફર્સ્ટ એઈડ) |
| (૫) રેડ ક્રોસ | — | પ્રાથમિક સારવાર |
| (૬) સ્વામી આધ્યાત્માનંદ | — | યોગ અને આરોગ્ય |
| (૭) ડૉ.રાજ ઉપાધ્યાય | — | પિરામીડના ચમત્કારો |
| (૮) ડૉ.સત્યપાલ | — | યોગ ઓર ભોજન ધ્વારા રોગો કા ઈલાજ |
| (૯) સ્વાશ્રેયી આરોગ્ય | — | સંગીત ચિકિત્સા વિશેષણ |
| (૧૦) આચાર્ય મહાપ્રજ્ઞા | — | રંગચિકિત્સા અને પ્રેક્ષાધ્યાન |
| (૧૧) ડૉ.મહેરવાન ભમગરા | — | આપણી અંદરનું બ્રહ્માંડ |
| (૧૨) વૈદ્ય નવિનભાઈ ઓઝા | — | નિસર્ગોપચાર |




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SEMESTER – II P.G.D.Y.Ed.204 – યોગ શિક્ષણમાં પદ્ધતિઓ અને મેનેજમેન્ટ

એકમ –૧ યોગ, શિક્ષણ, અર્થઘટન અને અધ્યયન પદ્ધતિઓ

- યોગ શિક્ષણ પરિચય આવશ્યકતા અને મહત્વ, શિક્ષણ શિખવાની પ્રક્રિયાઓ, સિધ્ધાંત, નિયમો, શિક્ષણ પદ્ધતિનો અર્થ, મહત્વ, શૈક્ષણિક પદ્ધતિમાં યોગિક સિધ્ધાંત, શિક્ષણ પદ્ધતિને અસર કરતાં પરિબળો, યોગ અને પર્યાવરણ વિજ્ઞાન, રજૂઆતની રીતો, તેનું મહત્વ, વિસ્તાર વ્યક્તિગત તૈયારી,

એકમ –૨ પાઠ આયોજન અને વર્ગ સંચાલન સાધનો

- પાઠ આયોજનની અગત્યતા અને મહત્વ, પાઠના પ્રકારો, પાઠના વિભાગો અને તેના હેતુઓ, પાઠ લેખન, પાઠનું નિરીક્ષણ, વર્ગ સંચાલન, મહત્વ વર્ગખંડ રચના, વર્ગ સંચાલન તેનું મહત્વ, દ્રશ્ય શ્રાવ્ય, પાવર પોઈન્ટ પ્રેઝન્ટેશનનું મહત્વ, સ્પર્ધા તેના પ્રકારો અને તેનું સંચાલન, પ્રોત્સાહનના પ્રકાર

એકમ –૩ યોગશિક્ષણ અને ગુરુ-શિષ્યનો સબંધ

- ગુરુ-શિષ્યનો સબંધ પરિચય મહત્વ, પ્રાચીન અને અર્વાચીન દૃષ્ટિએ સબંધનું મહત્વ, શિક્ષકની લાયકાત અને લક્ષણો, ઉપયોગીતા, રાષ્ટ્ર ઘડતરમાં ગુરુ-શિષ્યનું મહત્વ

એકમ –૪ યોગ શિક્ષણ અને સગવડો

- યોગ, ભવન, રચના અને સંભાળ, સાધનોની જરૂરીયાત, સંભાળ, સાચવણી, વિતરણ અને નિકાલ, અર્થઘટન, અગત્યના હેતુઓ અને માર્ગદર્શન

એકમ –૫ યોગ કાર્યક્રમો અને આયોજન

- યોગકાર્યક્રમનું મહત્વ અને તેની જરૂરીયાત સમયપત્રક, પત્રકરજીસ્ટરો, અંદાજપત્રા, નિરિક્ષણ, રંજન, શિબિર તેમજ કોમ્પ્યુટરનો ઉપયોગ

સંદર્ભ સાહિત્ય

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| (૧) ડોનાલ્ડ જી બટર | – | ટીચીંગ યોગા |
| (૨) નેશનલ કાઉન્સિલ ઓફ એજ્યુ. | – | યોગાસન ટીચર્સ ગાઈડ |
| (૩) સ્વામી સત્યાનંદ સરસ્વતી | – | ગુરુ-શિષ્ટ સબંધ |
| (૪) રાજર્ષિ મુનિજી | – | મારી ગુરુ પંરપરા |
| (૫) જી.નારાયણ | – | શ્રેષ્ઠતાના સોપાન, જવાબદારીયુક્ત નેતૃત્વ |
| (૬) લસ ગિલવિન | – | કળા-લોક વ્યવહારની |
| (૭) ડા.એચ.આર.નાગેન્દ્ર | – | યોગ-યોગ કા આધાર ઓર ઉસકે પ્રયોગ |
| (૮) સ્વામી સત્યાનંદ સરસ્વતી | – | બચ્ચો કે લીયે યોગ શિક્ષા |
| (૯) યોગ ઈન્સ્ટીટ્યુટ, મુંબઈ | – | વિદ્યાર્થીઓ માટે યોગ શિક્ષણ |



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- (૧૦) નિરવ ગઢાઈ—આર.આર.શેઠની કંપની— કારકિર્દી સલાહકાર
- (૧૧) પ્રા.ડા.સુરેશ આર સવાણી — ઉચ્ચ શિક્ષણની ગુણવત્તા સંદર્ભે આચાર્યની ભૂમિકા
- (૧૨) સ્વામી શિવાનંદ — વિદ્યાર્થીનું યશસ્વી જીવન
- (૧૩) સ્વામી રાજર્ષિ મુનિ. — શિષ્ય કેવા બનશો ?
- (૧૪) Teachers Handbook — Yoga for Children
- (૧૫) Dattaram Pol — Krida yoga



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હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

SEMESTER-II P.G.D.Y.Ed-206 પ્રાયોગિક – પાઠ આયોજન

આંતરીક મૂલ્યાંકન માળખું

| જુથ | પાઠ આયોજન વિભાગ | આંતરીક ગુણ |
|-----|--|--------------------|
| ૧. | સુર્યનમસ્કાર અને આસનો : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, યોગોપનિષદ અનુસાર આસનો, ધોરણ પ થી ૧૨ ના યોગ અભ્યાસક્રમના આસનો શ્રી લકુલીશ યોગ વિદ્યાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના આસનો | ૩ આસન × ૧૦ = ૩૦ |
| ૨. | પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, શિવ સંહિતા અનુસારની ક્રિયાઓ શ્રી લકુલીશ યોગ વિદ્યાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ | ૨ ક્રિયા × ૧૦ = ૨૦ |
| | કુલ ગુણ | ૫૦ |

નોંધ : આંતરિક પરિક્ષામાં પાસ થવા ૫૦% ગુણ લાવવા ફરજિયાત

બાહ્ય મૂલ્યાંકન માળખું :

| જુથ | પાઠ આયોજન વિભાગ | બાહ્ય ગુણ |
|-----|--|--------------------|
| ૧. | સુર્યનમસ્કાર અને આસનો : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, યોગોપનિષદ અનુસાર આસનો, ધોરણ પ થી ૧૨ ના યોગ અભ્યાસક્રમના આસનો શ્રી લકુલીશ યોગ વિદ્યાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના આસનો | ૧ આસન × ૭૫ = ૭૫ |
| ૨. | પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ : હઠ પ્રદીપિકા, ઘેરંડ સહિતા, શિવ સંહિતા અનુસારની ક્રિયાઓ શ્રી લકુલીશ યોગ વિદ્યાલયના યોગ કોર્સ પ્રથમા થી ચતુર્થના પ્રાણાયામ, બંધ મુદ્રા, ષટકર્મ | ૧ ક્રિયા × ૭૫ = ૭૫ |
| | કુલ ગુણ | ૧૫૦ |

નોંધ : બાહ્ય પરિક્ષામાં પાસ થવા ૫૦% ગુણ લાવવા ફરજિયાત



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Syllabus

for

Mobile Communication

Under the

Community College Scheme

Enforced from June-2014




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HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY
SYLLABUS FOR MOBILE COMMUNICATION
(Enforced from June - 2014)

OBJECTIVES:

The main objectives of the scheme are:

- (i) To make higher education relevant to the learner and the community;
- (ii) To integrate relevant skills into the higher education system;
- (iii) To provide skill based education to **students currently pursuing higher education** but actually interested in entering the workforce at the earliest opportunity;
- (iv) To provide employable and certifiable skills with necessary general education to Senior Secondary School pass-outs not willing to join existing higher education system;
- (v) To provide for up-gradation and certification of traditional / acquired skills of the learners irrespective of their age;
- (vi) To provide opportunities for community-based life-long learning by offering courses of general interest to the community for personal development and interest;
- (vii) To provide opportunity to move to higher education in future; and
- (viii) To offer bridge courses to certificate holders of general / vocational education, so as to bring them at par with appropriate NVEQF level

CC (MB.) R. 1

Any person who has taken the 10+2 qualification from recognized as equivalent there to may be admitted to the examination for the Course of Mobile Communication, after having fulfilled the requirements as laid down by the University and UGC from time to time.

CC (MB.) R. 2

A candidate, who are the regular student any of the course from any of the university he can take admission in CC and get skill up gradation knowledge.

CC (MB.) R. 3

The CC (MB) Programme is a part time course and consists of One Entry level and many exit level like

| | | | |
|-----------------------------|---|-----------|------------------------------|
| Certificate Course | – | 03 Months | (Module – I) |
| Advanced Certificate Course | – | 06 Months | (Module –I + II) |
| Diploma Course | - | 01 Year | (Module – I + II + III) |
| Advanced Diploma | - | 02 Years | (Module – I + II + III + IV) |




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Module – I

Certificate Course – Mobile Communication (Duration – 3 Months)

| Sr. No. | Subject | Credit | Hours | Internal Examination | External Examination | | Total |
|---------|---------------------------------------|--------|-------|----------------------|----------------------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Basic Telecomm and Earthing System | 03 | 45 | 30 | 70 | --- | 100 |
| 2 | Basics of Electronic Components | 03 | 45 | 30 | 70 | --- | 100 |
| 3 | Wireless & Cellular Communications-II | 03 | 45 | 30 | 70 | --- | 100 |
| 4 | Basic Mathematics-1 | 03 | 45 | 30 | 70 | --- | 100 |
| 5 | Computer Application-I | 03 | 45 | 30 | 50 | 20 | 100 |

Advanced Certificate Course – Mobile Communication (Duration – 6 Months)

Module I + Module – II

Module – II (03 Months)

| Sr. No. | Subject | Credit | Hours | Internal Examination | External Examination | | Total |
|---------|--|--------|-------|----------------------|----------------------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Telephone Exchange switching Theory- I | 03 | 45 | 30 | 70 | --- | 100 |
| 2 | Wireless & Cellular Communications-II | 03 | 45 | 30 | 70 | --- | 100 |
| 3 | Repairing | 03 | 45 | 30 | 70 | --- | 100 |
| 4 | Basic Mathematics-II | 03 | 45 | 30 | 70 | --- | 100 |
| 5 | Computer Application-II | 03 | 45 | 30 | 50 | 20 | 100 |




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HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY
SYLLABUS FOR Community College (Mobile Communication)
(Enforced from June - 2014)

CC-MC R1: Eligibility Criteria (EC) for Admission

1. The eligibility condition to the program will be 10+2 or equivalent.
2. If the candidate has attained the specific level 4 of NOS of Fashion Industry sector (by decision of equivalence committee of the college) can get admitted in B. Voc. for the programme
3. There is no age bar for admission to Community College
4. The student can take exit from this course at any point of time and get re-entry in this programme.

Such students will get priority in admission than to a fresher student. (multi entry & multi exit scheme)

CC- MC R2: Admission Procedure

1. For admission to the programmes offered, preference should be given to the learners living in the local community. Reservation to SC,ST, OBC and PWD categories will be available as per the extant national / State policy.
2. Admission may be done on a rolling basis depending on the duration of the programmes to facilitate a steady stream of learners joining the college and moving out as trained work force to the job market, round the year and not just once in a year.
3. The applicants seeking re-entry into the college should get preference in admission over the new applicants.
4. Candidates are selected on the basis of Merit.

CC- MC R3 : Fees and Scholarship

1. Student fee should be decided as per the prevalent practice for fee fixation for aided courses.
2. Attempt should be made to recover part of the operating expenditure from the student fees.



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3. In order to motivate students to join courses under the scheme, an amount of Rs. 1,000/- per month should be provided to the students under this scheme. This should be paid based on satisfactory attendance.

CC- MC R4 : Registration / Enrollment :

1. Every student admitted to the college for the programme must get enrolled to university within a month from the date of admission.

CC- MC R5 : Semester Examinations

1. Candidates desirous of appearing at any semester examination shall have to submit applications in the prescribed form, through the designated authority on or before the prescribed date.
2. No candidate will be admitted to any Semester examination unless the Designated Authority i.e. the Head of the Department or Principal of the College certifies that :
 - (i) The candidate attended the course of study to the satisfaction of the designated authority.
 - (ii) The candidate maintained a good conduct and character during the studies.
 - (iii) The candidate maintained minimum 80% attendance in each semester.

CC- MC R6 : Evaluation

1. Appropriate mechanism for assessment of the learners' progress towards acquisition of knowledge and skill should be developed by the College. Partner industries should also be given a clear and well defined role in the assessment of the learners.
2. Practical or hands on skills should be given comparatively more weightage in the overall assessment plan.
3. The CC should adopt and integrate the guidelines and recommendations of the respective Sector Skill Councils (SSCs) for the assessment and evaluation of the vocational component, wherever required. They should also involve the SSCs in the assessment process, wherever required. It applies to colleges, both Autonomous and non-autonomous and university to maintain Occupational Standards and the fitness for the job.



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4. Theory of each CORE paper will be evaluated for a maximum of 100 marks out of which, 30 marks shall be for Continuous evaluation (Exams) and 70 marks for the end semester examination shall be of 2 hours duration.
6. Each Elective paper is evaluated for a maximum of 70 marks which will be evaluated internally by continuous evaluation.

CC- MC R7 : Rules for grading & Semester Passing Scheme

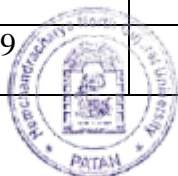
As per UGC Guidelines and Hemchandracharya North Gujarat University Rules

CC- MC R 8: Award of degree

1. Award of Certificate, Advanced certificate, Diploma or Advanced Diploma, as the case may be, would depend on acquisition of requisite credits as prescribed by the certification body and not on the calendar time spent in pursuing the course.
2. The certificate shall mention the credits earned course duration (in hours), and the curriculum covered. If the course is aligned with NVEQF / NSQF , the corresponding NVEQF / NSQF Level should also be mentioned on the certificate.

3. Award of degree will be as follows.

| NVEQF Level | Skill Component Credits | General Education Credits | Normal Calendar Duration (Post meeting the entry criterion) | Awards |
|-------------|-------------------------|---------------------------|---|----------------------|
| 6 | 72 | 48 | Four Semester | Advanced Diploma |
| 5 | 36 | 24 | Two Semester | Diploma |
| | 18 | 12 | One Semester | Advanced Certificate |
| | 9 | 6 | Three Months | Certificate |



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Detailed Syllabus

Module – I

1 DIGITAL COMMUNICATION PRINCIPLES

Fundamental of Telecommunications: Transmission media: Guided and Unguided, Twisted pair cable (STP & UTP), Coaxial cable, fiber optic cable, radio waves, infrared, microwaves links & Satellite Communication. Propagation of signals at HF, VHF, UHF and microwave frequencies, Access- WILL/RILL, DECT, FITL, WAN-Frame Relay, ATM.

Analog and Digital Communications: Fundamentals of signals, signal transmission and media, modulation & demodulation in analogue and digital systems, Sampling and data reconstructions, Quantization & coding, Time division and frequency division multiplexing, Basic information theory, Equalisation, amplification, crosstalk, attenuation. Digital Signal Processing: Discrete time signals and systems Z- transforms. Structures for digital filters. Frequency Transformations: Linear phase design. Introduction to DFT. Errors in digital filtering.




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2 Basic Electronic Components - I

Unit – I Circuit Concepts

Electrical Quantities, Lumped Circuit Elements, Kirchhoff's Laws, Meters and Measurements, Analogy between Electrical and other Non-Electrical Physical Systems

Unit – II Circuit Analysis Techniques:

Thevenin and Norton Equivalent Circuits, Node-Voltage and Mesh-Current Analysis, Superposition and Linearity, Wye-Delta Transformation, Computer Aided Circuit Analysis

Reference Books:

1. Introduction to Electrical Engineering, M S Sarma, Oxford University Press




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3 Wireless & Cellular Communications-I

UNIT I Introduction To Wireless / Cellular Communications And Standards

History and Evolution of mobile radio systems. Types of mobile wireless services/systems - Paging, Cordless, WL, Cellular Systems, WL, Satellite systems. Standards overview: AMPS, GSM, CDMA (IS-95), DECT, 3G – UMTS Network Architecture.

25%

Unit II - Cellular Concept And System Design Fundamentals

Cellular Concept and Frequency Reuse, Multiple Access Schemes, Channel Assignment, Handoff, Interference and System Capacity- Improving Coverage Capacity in Cellular Systems. Trunking and Erlang Capacity - Calculations.

30%

Unit III - Mobile Radio Propagation

Large Scale Path Loss : Introduction to Radio Propagation, Basic Propagation Mechanism, Propagation models (Free Space Propagation Model, Outdoor Models, Indoor Propagation Models), Small Scale Fading : Small Scale Multipath Fading, Types of Small Scale Fading and Parameters of Mobile Multipath Channels.

45%

REFERENCES

1. Kaveh Pahlavan & Allen H. Levesque, "Wireless Information Networks", by John Wiley & Sons, 2005.
2. William Stallings, "Wireless Communication & Networking", Pearson Education Asia, 2010.
3. Gordon L. Stuber, "Principles of Mobile Communication", Springer, 2011.




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4 Basic Mathematics-I

I SET THEORY 40%

Sets, types of sets, subset, power set, null set, universal set, equality of two sets, complement of a set, union and intersection of sets, difference of two sets, Venn diagram law of algebra of sets, De Morgan Laws, Cartesian product of two sets and number of elements in a finite set.

II REAL NUMBER SYSTEM 20%

Definition of Natural numbers, Integers, Rational numbers & irrational numbers, Real numbers- absolute value and its properties.

II FUNCTION : 40%

Concepts of a function, domain, co-domain and range of a function, constant functions, real functions, different functions and their graphs - linear function, quadratic function, polynomial function, rational function, exponential function and logarithmic function, function in economic theory (demand, supply, consumption, revenue and cost function) equilibrium price.

Reference Books:

1. Business Mathematics, V. K. Kapoor, Sultan chand and sons, New Delhi.
2. Business Mathematics, Allen R. G. D., Pitamber publication house.
3. Quantitative Techniques in Management, Vohra N. D., Tata MacGraw –Hill Publishing Company, New Delhi.
4. Elements of Business Mathematics by Soni, Sharma and Saxena (Pitamber Publication)
5. Mathematics for Management and Computer Applications, Sharma J. K. , Galgotia Private Limited, New Delhi.




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5 Computer Applications-I

I Introduction to Computers, Operating System, Windows & its Utilities

Computer system components, Input devices, Output devices, storage, devices, computer storage elements, types of computer, Applications of computers, advantages of using computer. Operating System: Introduction to operating system, Types of User Interfaces, Functions of Operating Systems Types of Operating Systems, Booting Process, Introduction to Windows, features of Windows, various versions, Components Of Windows Internet and Outlook : Internet and intranet , Most popular internet services, Functions of Internet like email, WWW, FTP, Usenet, IRC, instant, messaging, Internet Telephony Managing emails, Using address book, Working with task list, Scheduling appointments. **50%**

II MS Word

MS Word: Creating, navigating and editing Word documents, Formatting text of a document, Formatting , viewing and printing a document, Inserting and removing page breaks, Insert Header and footers, Viewing a document, Page set up of a document, Printing a document, Working with tables and graphics, Working with objects, Mail merge and labels, Spelling and grammar tools, Autocorrect, Auto text, Auto format, Inserting endnotes and footnotes, Working with columns, Inserting comments, Creating index and tables from the content of document, Counting words, Macros, Saving document with passwords. **50%**

University Examination Scheme (70-Marks) :

Theory Examination: 35 Marks

Practical Examination: 35 Marks

Reference Books:

1. PC Software, R. K. Taxali, Tata MacGraw Hill Publishing Company.
2. Working with Personal Computer Software (2nd Ed.) – R.P.Soni, Harshal Arolkar, Sonal Jain, Wiley –India Publications.
3. O-level- Module-I, II & III, Satish Jain, Sashank Jain, Sashi Singh & Dr. Madhulika Jain, BPB Publication.
4. Office 2003 in simple steps- Dreamtech Press.
5. Jain, V.K.; *Computers and Beginners*.




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Module – II

1 Telephone Exchange switching Theory - I

- a) Intelligent Network and Services: Overview of Intelligent Network architecture and functions of SSP, SCP, SMP, IP etc., Various types of IN services, Access codes for various IN services etc.
- b) Signaling Systems including CCS#7: Various signaling systems being used in the department for local and trunk network such as E/M, R2 modified, CCS#7 etc.
- c) ISDN: Overview of OSI layer, ISDN introduction and services, customer premises equipment
- d) Long Distance Switching: Overview of national transmission and signaling / synchronization plans.




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2 Wireless and Cellular Telecommunications

Unit I - Modulation And Signal Processing 50%

Overview of Analog and Digital Modulation Techniques, Equalization – Classification, algorithms for Adaptive Equalization, Diversity Techniques, Rake Receiver Concepts. Fundamentals of Chanel Coding.

Unit II - Intelligent Network For Wireless Communication 50%

Intelligent Cell Concept, Application for intelligent microcell Systems, In-Building Communication, MIMO, Advanced Intelligent Network(AIN) for Mobile Communication, Mesh Network / Adhoc Network – Introduction to Cooperative Communication Networks – Body Area Networks – Cognitive Radio Networks – Wireless Sensor Networks.

REFERENCES

1. Kaveh Pahlavan & Alen H. Levesque, “Wireles Information Networks”, by John Wiley & Sons, 205.
2. Wiliam Stalings, "Wireles Communication & Networking", Pearson Education Asia, 2010.
3. Gordan L. Stuber, “Principles of Mobile Communication”, Springer, 2011.




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3 Repairing

The course is divided into three parts -

1. Theory
2. Practicals
3. Practice

Hardware :

50%

- * Basics of Mobile Communication.
- * Tools & instruments used in mobile phone repairing.
- * Various components used in mobile phones.
- * Basic parts of mobile phones (mic, speaker, buzzer, LCD, antenna, etc).
- * Use of Multimeter.
- * Use of Battery Booster.
- * Basic Circuit Board/ Motherboard Introduction.
- * Assembling & disassembling of different mobile phones.
- * Soldering & Desoldering Components Using Different Soldering Tools.
- * Names of Different ICs.
- * Work of Different ICs.
- * Working on SMD/ BGA ICs and the PCB.
- * Fault finding & Troubleshooting.
- * Jumpering Techniques.
- * Troubleshooting through circuit diagrams.
- * Repairing procedure for repairing different hardware faults.

Software :

50%

- * Flashing
- * Formatting
- * Unlocking
- * Use of secret codes
- * Downloading
- * Bluetooth/ infrared




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4 Basic Mathematics-II

III DETERMINANT AND MATRIX

50%

Meaning of matrix and types of matrices- Null matrix, square matrix. Identity matrix, symmetric matrix and skew symmetric matrix, transpose of a matrix, orthogonal matrix, addition, subtraction and multiplication of matrices, determinants and their basic properties (without proof), singular and non singular matrices, inverse of a matrix, adjoint of a matrix, solution of simultaneous equations (for two and three variables only) using inverse of matrix.

III CO-ORDINATE GEOMETRY

50%

Co-ordinate of points, slope and intercepts of a straight line, equation of a straight line, different forms of equations of a straight line - (1) $\frac{y-y_1}{y_1-y_2} = \frac{x-x_1}{x_1-x_2}$. (2) $y-y_1 = m(x-x_1)$. (3) $y = mx + c$ (4) $\frac{x}{a} + \frac{y}{b} = 1$. General equation of a straight line, concurrent lines, angle between two straight lines, distance between two points area of a triangle and quadrilateral, collinearity of three points.

Reference Books:

1. Business Mathematics, V. K. Kapoor, Sultan chand and sons, New Delhi.
2. Business Mathematics, Allen R. G. D., Pitamber publication house.
3. Quantitative Techniques in Management, Vohra N. D., Tata MacGraw –Hill Publishing Company, New Delhi.
4. Elements of Business Mathematics by Soni, Sharma and Saxena (Pitamber Publication)
5. Mathematics for Management and Computer Applications, Sharma J. K. , Galgotia Private Limited, New Delhi.




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5 Computer Application - II

I MS Excel

50%

Introduction To Excel, Concept of workbook, worksheet, workspace, Types of data, Formatting workbook, Sorting Data Advanced Excel , Data validation, Data filter (Auto & Advance), Charts, What if analysis, Protecting Worksheet. **25%**

Functions and formulas:

1. Mathematical: Round, ceil floor, fact, subtotal, sum , sum if
2. Logical : AND, OR, NOT, if
3. Statistical: Min, max, avg, count if
4. Text: Concatenate, Exact, find, left, right, lower, upper, trim
6. Date and Time: Date, day, days360, hours, minute, now, second, time, today, year, date
7. Financial Functions: FV, IPMT, NPER, NPV, PMT, PV, Rate Data analysis : Standard deviation, Variance correlation, z-test, Chi-square).

II MS PowerPoint

50%

Creating , browsing & saving Presentation, Editing & formatting slides, Linking multiple slides using hyperlinks and advance buttons, Using slide layouts, Adding notes to the slides, Editing and formatting slides, Working with slide masters, Inserting objects on the slide, Animating objects, Slide transitions, Choosing preset animations, Triggering animations, Applying sound effects to animation effects, Playing videos, Slide show, Custom Show **25%**

University Examination Scheme (70-Marks) :

Theory Examination: 35 Marks

Practical Examination: 35 Marks

Reference Books:

1. PC Software, R. K. Taxali, Tata MacGraw Hill Publishing Company.
2. Working with Personal Computer Software (2nd Ed.) – R.P.Soni, Harshal Arolkar, Sonal Jain, Wiley –India Publications.
3. O-level- Module-I, II & III, Satish Jain, Sashank Jain, Sashi Singh & Dr. Madhulika Jain, BPB Publication.
4. Office 2003 in simple steps- Dreamtech Press.
5. Jain, V.K.; *Computers and Beginners*.




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NAAC Accreditation Grade - " B "

ISO 9001 - 2008 Certified

Community College Programme

Mobile Communication

Syllabus / Scheme

SEMESTER-----II

WITH SEMESTER /CBCS/GRADING PATTERN

W. E. F. : January-2015

Date : 27-02-2015

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1

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY
SYLLABUS FOR Community College (Mobile Communication)
(Enforced from January - 2015)

CC-FS : Module Examinations

1. Candidates desirous of appearing at any semester examination shall have to submit applications in the prescribed form, through the designated authority on or before the prescribed date.
2. No candidate will be admitted to any Semester examination unless the Designated Authority i.e. the Head of the Department or Principal of the College certifies that :
 - (i) The candidate attended the course of study to the satisfaction of the designated authority.
 - (ii) The candidate maintained a good conduct and character during the studies.
 - (iii) The candidate maintained minimum 80% attendance in each semester.

CC-FS : Evaluation

1. Appropriate mechanism for assessment of the learners' progress towards acquisition of knowledge and skill should be developed by the College. Partner industries should also be given a clear and well defined role in the assessment of the learners.
2. Practical or hands on skills should be given comparatively more weightage in the overall assessment plan.
3. The CC should adopt and integrate the guidelines and recommendations of the respective Sector Skill Councils (SSCs) for the assessment and evaluation of the vocational component, wherever required. They should also involve the SSCs in the assessment process, wherever required. It applies to colleges, both Autonomous and non-autonomous and university to maintain Occupational Standards and the fitness for the job.
4. Theory of each CORE paper will be evaluated for a maximum of 100 marks out of which, 30 marks shall be for Continuous evaluation (Exams) and 70 marks for the end semester examination shall be of 2 hours duration.
6. Each Elective paper is evaluated for a maximum of 70 marks which will be evaluated internally by continuous evaluation.




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CC-FS : Rules for grading & Semester Passing Scheme

As per UGC Guidelines and Hemchandracharya North Gujarat University Rules

CC-FS : Award of degree

1. Award of Certificate, Advanced certificate, Diploma or Advanced Diploma, as the case may be, would depend on acquisition of requisite credits as prescribed by the certification body and not on the calendar time spent in pursuing the course.
2. The certificate shall mention the credits earned course duration (in hours), and the curriculum covered. If the course is aligned with NVEQF / NSQF, the corresponding NVEQF / NSQF

Level should also be mentioned on the certificate.



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Module-III (Six Months)

| Sr. No. | Subject | Credit | Hours | Internal | External | | Total |
|---------|-------------------------------------|--------|-------|----------|----------|-----------|-------|
| | | | | | Theory | Practical | |
| 1 | Wireless Communication | 6 | 90 | 30 | 35 | 35 | 100 |
| 2 | Wireless Networks | 6 | 90 | 30 | 35 | 35 | 100 |
| 3 | Mobile communication System | 6 | 90 | 30 | 35 | 35 | 100 |
| 4 | Mobile Network and Transport Layers | 6 | 90 | 30 | 35 | 35 | 100 |
| 5 | Business Mathematics-I | 4 | 60 | 30 | 70 | --- | 100 |
| 6 | Communication Skill-II | 4 | 60 | 30 | 35 | 35 | 100 |
| 7 | MS Access | 4 | 60 | 30 | 35 | 35 | 100 |
| 8 | Survey Based Project | 4 | 60 | --- | --- | 100 | 100 |



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Module - III

1 WIRELESS COMMUNICATION

Cellular systems- Frequency Management and Channel Assignment- types of handoff and their characteristics, dropped call rates & their evaluation -MAC - SDMA - FDMA - TDMA - CDMA - Cellular Wireless Networks

2 WIRELESS NETWORKS

Wireless LAN - IEEE 802.11 Standards - Architecture - Services - Mobile Ad hoc Networks- WiFi and WIMAX - Wireless Local Loop

3 MOBILE COMMUNICATION SYSTEMS

GSM-architecture-Location tracking and call setup- Mobility management- Handover- Security-GSM SMS -International roaming for GSM- call recording functions-subscriber and service data mgt -Mobile Number portability -VoIP service for Mobile Networks - GPRS -Architecture-GPRS procedures-attach and detach procedures-PDP context procedure-combined RA/LA update procedures-Billing

4 MOBILE NETWORK AND TRANSPORT LAYERS

Mobile IP - Dynamic Host Configuration Protocol-Mobile Ad Hoc Routing Protocols- Multicast routing-TCP over Wireless Networks - Indirect TCP - Snooping TCP - Mobile TCP - Fast Retransmit / Fast Recovery - Transmission/Timeout Freezing-Selective Retransmission - Transaction Oriented TCP- TCP over 2.5 / 3G wireless Networks

5 Business Mathematics-I

SET THEORY

Sets, types of sets, subset, power set, null set, universal set, equality of two sets, complement of a set, union and intersection of sets, different of two sets, Venn diagram law of algebra of sets, De Morgan Laws, Cartesian product of two sets and number of elements in a finite set.

FUNCTION :

Concepts of a function, domain, co-domain and range of a function, constant functions, real functions, different functions and their graphs - linear function, quadratic function, polynomial function, rational function, exponential function and logarithmic function, function in economic theory (demand, supply, consumption, revenue and cost function) equilibrium price.

DETERMINANT AND MATRIX



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Meaning of matrix and types of matrices - Null matrix, square matrix. Identity matrix, symmetric matrix and skew symmetric matrix, transpose of a matrix, orthogonal matrix, addition, subtraction and multiplication of matrices, determinants and their basic properties (without proof), singular and non singular matrices, inverse of a matrix, adjoint of a matrix, solution of simultaneous equations (for two and three variables only) using inverse of matrix.

LIMIT

Limit as a function, limit of sum, product and quotient of two functions and their uses in evaluating limits, use of the standard forms (without proof)

6 Business Communication – 1

Grammar : Tense, Voice and Modals

Vocabulary : Phrasal Verbs, Synonyms, Antonyms, Idioms, Commercial Terms (Business jargons).

Communication Theory :

Process of Communication

Characteristics of Business Communication

Importance of Business Communication

Business Communications :

- a. Format and Layouts of business letters
- b. Letter writings for followings; Enquiries and Replies, Placing of orders, Execution of orders, denying of orders/ offers.

Practical Examination:

- Listening Comprehension
- Group discussion and individual speaking
- Listening
- Journal Writing (Review of at least one short story/Biography of business leaders and two Articles from the leading business news papers).

7 MS Access

Access Basics

Design a Database

Build a Database

Work with Forms

Sort, Retrieve, Analyze Data

Work With Reports

Access with Other Applications

Manage an Access Database



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NAAC Accreditation Grade - " B "



FACULTY OF ARTS

Career Oriented Certificate Course

FUNCTIONAL & COMMUNICATIVE ENGLISH
Revised Syllabus / Scheme

SEMESTER - I & II
GRADING PATTERN

W. E. F. JUNE - 2012 (In Continuation)

DATE : 17-10-2012

TOTAL PAGE - 05.



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Semester – I [COP: Functional and Communicative English]
Syllabus of Units Basic – 1 & 2

Objective:

- (1) To enable the student to pronounce correctly with proper stress and intonation, to use the conversational structure appropriately.
- (2) To enable the student to write to correct English with proper spelling and content.

Unit – I Communication and Writing Skills:

- (a) Communication English Sounds, Words and Vocabulary
- (b) Stress, Punctuation and Fluency
- (c) Intonation and Pronunciation.

Unit – II Conversation with Pattern and Content:

- (a) Dialogue based study of structural patterns and grammatical topic including course and function.
- (b) Effect to communication, use of articles, revision, of tenses, use of Vocabulary and modal of auxiliary verbs

Basic Reading:

1. Mohan K. Das: Developing Communication Mac Millan Press, New Delhi.
2. Tom Allens & Walter: English for Specific Purpose, Cambridge University Press.
3. V. Sasikumar : A Course in Listening and Speaking – I, Cambridge University press
4. G. Taylor: English Conversation Practice, Tata Mcgraa-Hill Publishing Company Ltd.
5. Raymond Murphy: Essential English Grammar, Cambridge University Press



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Semester – II [COP: Functional and Communicative English]
Syllabus of Units Basic – 3 & 4

Objective:

- (1) To enable the students to communicate correctly and properly in Basic English communication.
- (2) To enable the student to write correct English and Speak in the proper order and fluency.

Unit – III Effective Communication, Communicative Functions and Content Reading:

- (a) What is communication?
- (b) Essential of effective communication.
- (c) What is function?
- (d) Essential of Effective Functions
- (e) What is Comparison between Communication and Function?
- (f) Communicative function: Greeting and Introduction, request, Permission, instruction and direction, offering help etc.
- (g) How can write correct English?
- (h) How can Speak Fluent English?

Unit – IV Training/Fieldwork/Project Work

On the basis of unit I-III; training of preparing project on the basis of the Content work would be given to the student. The student would be given small communicative function based project on daily use of English in society and New Paper.

Basic Reading:

1. Mohan K.Das: Developing Communication Mac Millan Press, New Delhi.
2. Tom Allens & Walter: English for Specific Purpose, Cambridge University Press.
3. V. Sasikumar : A Course in Listening and Speaking - I, Cambridge University press
4. G. Taylor: English Conversation Practice, Tata Mcgraa-Hill Publishing Company Ltd.
5. Raymond Murphy: Essential English Grammar, Cambridge University Press



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Notes:

1. This syllabus has been developed for the student of Career Oriented Programme of Function and Communicative English
2. The whole syllabus has been divided in to 2 semesters and each semester has 2 units.
3. The whole course is having 20 credits out of which 8 credits has been given to the project work/field work /training.
4. In semester II, project work/ field work is compulsory.
5. Marks are divided into external and internal. In each semester external marks are 70 and Internal are 30.
6. Viva voice is also a part of the examination system
7. Due weight age would be given to the attendance.

SCHEME OF EXAMINATION

Student will be evaluated on the basic of a written examination and Viva voice at the end of each semester and internal assessment would also be done during the semester. In the external examination, written examination would be having 50 MCQs (Multi-choice questions) of 50 marks having the duration of one hour. The project work/viva voice will be of 20 marks. The internal assessment will be of 30 marks, out of which, 15 marks will be of MCQs, 10 marks of project work/viva voice and 5 marks for the presence/performance during the semester.



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Semester - I

| No | Course Code | Name of Course | Credits |
|---------|-------------|---------------------------------------|---------|
| 1 | Basic - 1 | Communication and Writing Skills | 05 |
| 2 | Basic - 2 | Conversation with Pattern and Content | 05 |
| Total : | | | 10 |

Semester - II

| No | Course Code | Name of Course | Credits |
|---------------|-------------|---|---------|
| 1 | Basic - 3 | Effective communication, Communication Function and Content Reading | 02 |
| 2 | Basic - 4 | Training and Project Work | 08 |
| Total : | | | 10 |
| Grand Total : | | | 20 |

Grade will be given by below method

Grading Point :

| Grade Point | Description | % of Marks | Division / Grade |
|-------------|-------------|------------|------------------|
| 10 | Outstanding | 90% → 99% | First / O |
| 9 | Excellent | 80% → 89% | First / A |
| 8 | Very Good | 70% → 79% | First / B |
| 7 | Good | 60% → 69% | First / C |
| 6 | Fair | 50% → 59% | Second / D |
| 5 | Average | 40% → 49% | Pass / E |
| 4 | Dropped | Below 40% | F |



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Semester - I Career Oriented Programme - Function and communication English

| Subject Code | Title of the Course | Course Credits | No. of Hours per Semester | Weightage for Internal Examination | Weightage For Semester end Examination | Total Marks |
|--------------|---------------------------------------|----------------|---------------------------|------------------------------------|--|-------------|
| Basic - 1 | Communication and Writing Skills | 05 | 75 | 30 | 70 | 100 |
| Basic - 2 | Conversation with Pattern and Content | 05 | 75 | 30 | 70 | 100 |

Semester - II Career Oriented Programme - Function and communication English

| Subject Code | Title of the Course | Course Credits | No. of Hours per Semester | Weightage for Internal Examination | Weightage For Semester end Examination | Total Marks |
|--------------|--|----------------|---------------------------|------------------------------------|--|-------------|
| Basic - 3 | Effective Communication, Communicative Functions and Content Reading | 02 | 30 | 30 | 70 | 100 |
| Basic - 4 | Training and Project work | 08 | 120 | 30 | 70 | 100 |



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FACULTY OF ARTS

Career Oriented Certificate Course

Revised SPOKEN ENGLISH
Syllabus / Scheme

SEMESTER - I & II
GRADING PATTERN

W. E. F. JUNE - 2012 (In Continuation)

DATE : 17-10-2012

TOTAL PAGE - 05



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1

Notes: *(Faint text, possibly in Gujarati)*

- 1) This syllabus has been developed for the student of Career Oriented Programme of Spoken English.
- 2) The whole syllabus has been divided into 2 semesters and each semester has 2 units.
- 3) The whole course is having 20 credits out of which 8 credits has been given to the project work/filed work /training.
- 4) In semester II, project into external and internal. In each semester external marks are 70 and internal are 30.
- 5) Viva voice is also a part of the examination system.
- 6) Due weight age would be given to the attendance.

(Faint text, possibly in Gujarati)

SCHEME OF EXAMINATION

Student will be evaluated on the basis of a written examination and Viva voice at the end of each semester and internal assessment would also be done during the semester. In the external examination, written examination would be having 50 MCQs (Multi-choice questions) of 50 marks having the duration of one hour. The project work/viva voice will be of 20 marks. The internal assessment will be of 30 marks, out of which 15 marks will be of MCQs, 10 marks of project work/viva voice and 5 marks for the presence/performance during the semester.

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Semester - I [COP: Spoken English]
Syllabus of Units Basic - I & 2

Objective:

To enable the student to pronounce correctly with proper stress and intonation, to use the conversational structure appropriately.

Unit - I Introduction to Phonetics

- (a) Pronunciation : English sounds and words
- (b) Stress
- (c) Intonation

Unit - II Conversational Structures:

Dialogue based study of structure patterns and grammatical topics

Basic Reading:

1. V. Sasikumar : A Course in Listening and Speaking - I, Cambridge University press
2. G. Taylor: English Conversation Practice, Tata Mcgraw-Hill Publishing Company Ltd.
3. Raymond Murphy: Essential English Grammar, Cambridge University Press



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3

Semester – II [COP: Spoken English]
Syllabus of Units Basic 3 & 4

Objective:

To enable the students to communicate correctly and properly in Basic English communication.

Unit – III Process of Effective Communication and communicative functions:

- (a) What is communication?
- (b) Essential of effective communication
- (c) Communicative function: Greeting and Introduction, request, Permission, instruction and direction; offering help etc.

Unit – IV Training/Fieldwork/Project Work

On the basis of unit [II-III], training of preparing project on the basis of the field work would be given to the student. The student would be given small communicative function based project on daily use of English in society.

Basic Reading:

- 1 V. Sasikumar : A Course in Listening and Speaking – I, Cambridge University press
- 2 G. Taylor: English Conversation Practice, Tata Mcgraa-Hill Publishing Company Ltd.
- 3 Raymond Murphy: Essential English Grammer, Cambridge University Press.
- 4 Di Pietro Speaking. Oxford: Oxford University Press.



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4

Semester - I

| No | Course Code | Name of Course | Credits |
|--------------|-------------|---------------------------|-----------|
| 1 | Basic - 1 | Introduction to Phonetics | 05 |
| 2 | Basic - 2 | Conversational Structure | 05 |
| Total | | | 10 |

Semester - II

| No | Course Code | Name of Course | Credits |
|--------------------|-------------|--|-----------|
| 1 | Basic - 3 | Effective communication and Communication Function | 02 |
| 2 | Basic - 4 | Training/Fieldwork/Project Work | 08 |
| Total | | | 10 |
| Grand Total | | | 20 |

Grade will be given by below method:

Grading Point

| Grade Point | Description | % of Marks | Division/Grade |
|-------------|-------------|------------|----------------|
| 10 | Outstanding | 90% → 99% | First/O |
| 9 | Excellent | 80% → 89% | First/A |
| 8 | Very Good | 70% → 79% | First/B |
| 7 | Good | 60% → 69% | First/C |
| 6 | Fair | 50% → 59% | Second/D |
| 5 | Average | 40% → 49% | Pass/E |
| 4 | Dropped | Below 40% | F |



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5

Semester – I Career Oriented Programme of Spoken English

| Subject Code | Title of the Course | Course Credits | No. of Hours per Semester | Weightage for Internal Examination | Weightage For Semester end Examination | Total Marks |
|--------------|---------------------------|----------------|---------------------------|------------------------------------|--|-------------|
| Basic – 1 | Introduction to Phonetics | 05 | 75 | 30 | 70 | 100 |
| Basic – 2 | Conversational Structure | 05 | 75 | 30 | 70 | 100 |

Semester – II Career Oriented Programme of Spoken English

| Subject Code | Title of the Course | Course Credits | No. of Hours per Semester | Weightage for Internal Examination | Weightage For Semester end Examination | Total Marks |
|--------------|---|----------------|---------------------------|------------------------------------|--|-------------|
| Basic – 3 | Effective Communication and Communicative Functions | 02 | 30 | 30 | 70 | 100 |
| Basic 4 | Training/Fieldwork/Projectwork | 08 | 120 | 30 | 70 | 100 |



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CERTIFICATE COURSE IN DISASTER
MANAGEMENT




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CERTIFICATE COURSE IN DISASTER MANAGEMENT

(Course Rules)

1. DURATION

The course shall be a Certificate Diploma Course. The duration of course shall be of six months /One Semester. The maximum duration for the course is five years from the date of enrollment.

2. PATTERN

The course is designed as per the Semester pattern (30:70) with choice based credit system. The marks for each theory paper =100

70 Marks : Each Theory Paper.

30 Marks : Each Theory Paper, Internal Assessment on the basis of Paper presentation /Assignments/Term papers/ Test exam/ Case-study presentation/ Review of Article or Books/Preparing bibliography/ Field based task. Internal assessments marks shall be given by the subject teacher and shall be submitted to the University by Head of the Institute/ Department The classes will be held at every Saturday and Sunday in order to benefit the working professionals in the field of social work.

3. FEE STRUCTURE

The fees of the year/ semester are to be decided by the university from time to time. For Foreign students Tuition Fee will be five times or as per the University as well as Govt. norms)

Note: The students should pay the fee which is decided by the university from time to time.




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4. Course Center and Intake:

Dept, of Social Work, Hemchandracharya North Gujarat University, Patan
Total Intake: 40.

5..Admission Committee:

l) For the admissions of the MSW course the composition of Admission Committee which will be the final authority is as mentioned below:

1. Co-coordinator / Head, Department of Social Work of MSW Course:

Chairman:

4. The SC and ST teacher representative to be nominated by vice chancellor

6. Merit List for admission rounds:

1. The merit list of the students shall be prepared on the basis of marks obtained by the candidate in the HSC Exam.

2. In case of less number of available students in compare to intake capacity of the course, the admission shall be on first come first serve basis.

Reservation:

l) Intake Capacity of CDM Course and Reservation quota for admission will be as per the rules of the State Government and university from time to time.

If any difficulty arises during the admission process, the admission committee should take the appropriate decision, which should be considered as final decision




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7. MEDIUM OF INSTRUCTION:

The medium of instruction shall be in Gujarati and English.

8. VIVA VOCE EXAMINATION

There will be viva voce examination at the end of course

9. Grant of terms:

100% per cent attendance is expected at the orientation programme, orientation visits, and 90% in field work. Minimum 75% attendance is expected at the class room. Leave is ordinarily not granted. In very exceptional circumstances leave with prior permission of the Head of the Institution must be obtained. The Head of the Institution reserves the right to grant terms. Every student will have to give an undertaking in relation to compliance of all rules and regulations of the training institution. The decision of the Head of the Institution shall be final and binding in all matters pertaining to discipline and professional behavior.

10. Heads of passing

The following shall be the independent heads of passing :

- | | |
|--|-----------------------------------|
| 1. Written and theory papers | 40% of marks in each paper |
| (on the basis of external marks obtained) | |
| 2. Field work | 40% marks |
| 3. Research dissertation | 40% marks |
| 4. Viva voce | 40% of marks |




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11. Award of grades a

| Marks | Grades | Grade Points |
|--|--------|--------------|
| 1. 75 %percent marks and above (75%+) | O | 05 |
| 2. 65 %percent marks and above (65to74% | A | 04 |
| 3. 55 %percent marks and above (55to64%) | B | 03 |
| 4. 50 %percent marks and above (50to54%) | C | 02 |
| 5. 45% an above (45to50%) | D | 01 |
| 6. below 45% of marks (below 45%) | E | 0 |

(Grades should be evaluated on the basis of external marks)

The Exam Structure of the Program

| Sr.No | Subject | Internal Marks | External Marks | Total |
|-------|------------------------------|----------------|--|-------|
| 1 | CDM 01 Theory | 30 | 70 | 100 |
| 2 | CDM 02 Theory | 30 | 70 | 100 |
| 3 | CDM 03 Field work and Report | | 50 viva voce 50 Project Report Evaluation | 100 |
| | | | | 300 |




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| TITLE | | CREDITS |
|---------------------|---|-----------|
| CDM01 | BASICS OF DISASTER MANAGEMENT | 06 |
| CDM02 | DISASTER MANAGEMENT: PREPAREDNESS AND RESPONSE | 06 |
| CDM03 | PROJECT WORK/PLACEMENT | 12 |
| TOTAL CREDIT | | 24 |

DETAIL CURRICULUM

BASICS OF DISASTER MANAGEMENT

1. Meaning concept and definition of Disaster
2. Disaster: Classification, Causes, Impacts (including social economic, political, environmental, health, psychosocial)
3. Disaster, hazard, risk, vulnerability
4. Inter relation between disaster and developments Factors affecting vulnerabilities, differential impacts Impacts of development project such as dams, embankments, changes in Land use etc, climate change, relevance of indigenous knowledge, appropriate technology and local resources.
5. Government Institutions for disaster management

CDM02 DISASTER MANAGEMENT: PREPAREDNESS AND RESPONSE

1. Hazard and vulnerability profile of India.
2. component of disaster relief : water, food, sanitation, shelter, Health (pre hospital management like first aid cpr) , waste management




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3. Institutional arrangements (Mitigation, Response and preparedness, Disaster Management Act and policy) other related policies, plan programs and legislation)
4. Stages of response : relief, rehabilitation and reconstruction
5. culture of safety
6. A case study of Kutch earthquake.

CDM03 PROJECT WORK/PLACEMENT

The project work/field work is meant for students to understand vulnerabilities and to work on reducing disaster risks and to build a culture of safety. Project must be conceived creatively based on the geographic location and hazard profile of the region.

Several governmental initiatives require Urban Local bodies (ULBs) and Panchayati Raj Institutions (PRIs) to be proactive in preparing DM plans and community based preparedness plan. Information on these would be available with the District Collector or Municipal Corporations. The scope for students to collaborate on these initiatives is immense. Teacher may explore possibilities.

The potential agencies for placement or project work are as mentioned below.

District Disaster Management Unit

State Disaster Management Unit

Any disaster affected area

A systematic disaster preparedness plan implementation in PRIs

Any of the potential disaster area.

NGOs working for Disaster Management



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Bibliography

Encyclopaedia of Disaster Management By Goel, S. L.
Deep & Deep Publications Pvt Ltd

Disaster Management By G.K. Ghosh
A.P.H. Publishing Corporation

Disaster Management By R.B. Singh
Rawat Publications

Disaster Management: Through the New Millennium By Ayaz Ahmad
Anmol Publications

Emergency Medical Services and Disaster Management: A Holistic Approach By P.K. Dave
Jaypee Brothers Medical Publishers (P) Ltd

Disaster Management By B Narayan
A.P.H. Publishing Corporation

Modern Encyclopaedia of Disaster and Hazard Management By B C Bose
Rajat Publications

Disaster Management By Nikuj Kumar
Alfa Publications

Disaster Management - Recent Approaches By Arvind Kumar
Anmol Publications

Tsunamis: Threats and Management by Dr. Jagbir Singh
I.K. International

Disaster Management Future Challenges and Opportunities by Dr. Jagbir Singh.
I.K. International

Solid Waste Management by Dr. Jagbir Singh
I.K. International




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Geographic Information Systems Certificate

Division of Engineering Technologies and Computer Sciences – Curriculum Code : 3206

Will Earn Upon Program Completion: Certificate in Geographic Information Systems

Why major in Geographic Information Systems?

This program prepares a person for entry level positions in the field of geographic information systems. A geographic information system (GIS) is an integrated database management system used to store, organize, retrieve, and analyze geographical and resource data for decision making. The curriculum includes computer-assisted drafting, map making, database management, surveying, and applications of geographical information systems.

GIS technicians work under the supervision of GIS engineers, managers, cartographers, surveyors, and other professionals. The need for technicians in this area continues to grow with the rapid development and implementation of GIS technology.

This program enables the student to test and obtain a National GIS Industry Certification, more commonly known as a STARS Certification -- "Spatial Technology and Remote Sensing (STARS)"-- through an ECC partner.

Are there any requirements I must satisfy before I start taking courses in my major?

Based on your placement test scores, you may have to take developmental courses in reading, English, and/or mathematics before taking courses in your major.

How long will it take me to complete this certificate?

If you do not need developmental courses and you register for an average of 15 credits each semester, you can complete the degree in ten months.

Where should I direct specific questions about this program?

Contact the Academic Affairs Office at (973) 877-3498.




Upon completion of this program, graduates will be able to:

- ◆ Demonstrate an understanding of geographic information systems and how they can be used to manage and analyze spatial information;
- ◆ Demonstrate an understanding of the principle of remote sensing and image processing;
- ◆ Explore geospatial technology's role in social, behavioral, life, and physical sciences;
- ◆ Apply critical thinking and communications skills through problem-solving projects;
- ◆ Demonstrate proficiency in GIS concepts, software, data, and application in preparation for STARS GIS Certification Examination.

A handwritten signature in blue ink.

I/c. Registrar
Hemchandracharya
North Gujarat University
PATAN

Geographic Information Systems Certificate Program

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| <p>GENERAL EDUCATION REQUIREMENTS: (6 credits)</p> <p>Communications (3 credits) ENG 101 College Composition I 3</p> <p>Mathematics (3 credits) MTH 101 Statistics and Probability 3</p> <p>MAJOR COURSE REQUIREMENTS: (21 credits)</p> <p>Cartography/Computer Map Reading 3 GIS 111 Fundamentals of GIS 4 GIS 201 Intro. to Spatial Analysis 4 GIS 211 Advanced Applications in GIS 4 GIS 298 GIS Technology Projects 3 GIS 299 GIS Internship 3</p> <p>ADDITIONAL COURSE REQUIREMENTS: Select one from the following (3 credits)</p> <p>GIS 220 GIS in Homeland Security or GIS 221 GIS in Law Enforcement or GIS 222 GIS in Economic Development 3</p> <p>Total Credits Required for Certificate 30</p> | <p>FULL TIME/Day - First Semester</p> <p>GIS 101 Cartography/Computer Map Reading 3 GIS 111 Fundamentals of GIS 4 ENG 101 College Composition I 3 MTH 101 Statistics and Probability 3</p> <p>Second Semester</p> <p>GIS 201 Intro. to Spatial Analysis 4 GIS 211 Advanced Applications in GIS 4 GIS 298 Application Projects 3 GIS Elective 3</p> <p>Summer Semester</p> <p>GIS 299 GIS Internship 3</p> <p>Part-time/Evening - (First Quarter)</p> <p>GIS 101 Cartography/Computer Map Reading 3 ENG 101 College Composition I 3 MTH 101 Statistics and Probability 3</p> <p>Second Quarter</p> <p>GIS 111 Fundamentals of GIS 4 GIS 201 Intro. to Spatial Analysis 4</p> <p>Third Quarter</p> <p>GIS 211 Advanced Applications in GIS 4 GIS 298 GIS Application Projects 3</p> <p>Fourth Quarter</p> <p>GIS Elective 3 GIS 299 GIS Internship 3</p> |
| <p>RECOMMENDED SEQUENCE OF COURSES:*</p> |  I/c. Registrar Hemchandracharya North Gujarat University PATAN |

*NOTE: This plan assumes the completion of all required developmental courses in reading, writing, and mathematics as well as other pre- and co-requisites for some of the courses, as listed in the Course Descriptions section of the catalog.

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY
PATAN - 384 265



NAAC Accreditation Grade - " B "

ISO 9001 - 2008 Certified

FACULTY OF ARTS

P.G. Certificate Course In Prakrit
Syllabus and Exam Scheme

Semester - 1 & 2

W.E.F. : June - 2013

Date : 11 - 10 - 2013




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Hemchandracharya
North Gujarat University
PATAN

TOTAL PAGE - 15



हेमचन्द्राचार्य उत्तर गुजरात युनिवर्सिटी, पारण

PG Certificate Course in Prakrit
Semester-1

क्रोध:- प्राकृत-१०१, विषय - प्राकृत व्याकरण-१ (महाराष्ट्री);

क्रोध उद्देश : विद्यार्थी प्राकृत विषयशी परिचित थाय, विद्यार्थी प्राकृत व्याकरणनी समज साथे प्राकृत परंपराशी पण, अवगत थाय

| नंबर | विषय | अंक |
|-------------|---------------------------------------|---|
| प्राकृत-१०१ | प्राकृत व्याकरण १ (महाराष्ट्री) | १. नाम-सर्वनाम २. क्रिया-कृदन्त ३. तद्धित, अव्यय, कर्मणि, घोरक प्रयोग ४. ध्वनि परिवर्तन स्वर, असंयुक्त व्यंजन ५. ध्वनि परिवर्तन, संयुक्त व्यंजन |

संदर्भ पुस्तकें :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यजो बृहद इतिहास, भाग-६, गुलाबचन्द्र चौधरी, गुज.अनु.धेन.जे.शा.ह, अमदावाद, श्री १०८ जैनतीर्थदर्शन २००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन, वाराणसी, चौखम्बा विद्याभवन, १९८५
४. प्राकृत भाषा और साहित्य का इतिहास - नैमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राकृत संस्कृत तत्त्व, के.आर.चन्द्रा प्राकृत टेकट सोसायटी, अमदावाद
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन, दिल्ली, २००२
७. प्राकृत गद्य-पद्य संचय (Selection from the works mentioned in CPRA2 & 5)
८. ग्रीढ प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी, २०००
९. प्राकृत मार्गापदेशिका-पंडित बेचरदास दोशी.
१०. Introduction to Prakrit- Woolner A.C




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હેમચન્દ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

PG Certificate Course in Prakrit
Semester-1

કોર્સ પ્રાકૃત-૧૦૧, વિષય પ્રાકૃત વ્યાકરણ-૧ (મહારાષ્ટ્રી)

| | |
|--|------|
| યુનિટ-૧. એકમ-૧ નામ-સર્વનામ માથી પ્રશ્ન પૂછવા. | (૧૪) |
| યુનિટ-૨. એકમ-૨ ક્રિયા-કૃદન્ત માંથી પ્રશ્ન પૂછવા. | (૧૪) |
| યુનિટ-૩. એકમ-૩ તદ્દિત, અવ્યય, કર્મણિ, પ્રેરક પ્રયોગમાંથી પ્રશ્ન પૂછવા. | (૧૪) |
| યુનિટ-૪ એકમ-૪ ધ્વનિ પરિવર્તન સ્વર, અસંયુક્ત વ્યંજનમાંથી પ્રશ્ન પૂછવા. | (૧૪) |
| યુનિટ-૫. એકમ-૫ ધ્વનિ પરિવર્તન, સંયુક્ત વ્યંજનમાંથી પ્રશ્ન પૂછવા. | (૧૪) |



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हेमचन्द्राचार्य उत्तर गुजरात विश्वविद्यालय, पाटણ

PG Certificate Course in Prakrit
Semester-1

शोध- प्राकृत-102, विषय प्राकृत गद्य-पद्य 1 (महाराष्ट्री) अनुवाद

शोध उद्देश : विद्यार्थी प्राकृत विषयशी परिचित थाय, विद्यार्थी प्राकृत व्याकरणानी समझ साथे प्राकृत परंपराथी પણ अवगत थाय.

| नंबर | विषय | श्रेणम |
|-------------|--|---|
| प्राकृत-102 | प्राकृत गद्य-पद्य 1 (महारा ष्ट्री) अनुवाद | <p>१. वसुदेवहिण्डी (सबसुभाषणं कीडा पृ.१०५-६) कुवलयमालाकहा. (कुवलयमाला-कुवलयचंद्राण उज्जाण मिलाण पृ.१६६-६८)</p> <p>२. चउपन्नमहापुरिसचरिय (अइरवायरिअमंतसिद्धि पृ.११८-२० आरामसोहा कहा (प्रारंभ से वरदाण प्राप्त तक)</p> <p>३. पउमचरियं (केगडु परिणयणं-उददेश-२४)लीलावईकहा (णयरी - रावावणणो गाथा ३२-७२)</p> <p>४. कहरायणकोस (चन्दना कहणयं पृ ७०) धर्मोपदेशमालाविवरण (चित्तसार दारिया-पृ)</p> <p>५. वज्जसग्गं (कव्य,गाथा,मित्त्वज्जा) गाहानत्सङ्गं (गाथामाधुरी ग्रामांक १, २, ४, १२, १७, १८, २१, २४, ३०, ३२, ३६, ३९, ४२, ४४, ५४, ५९, ६४, ६६, ६७, ७०, ७२, ७३.)</p> |

संदर्भ पुस्तकें :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास भाग-५, गुलाबयन्त्र चौधरी, गुज.अनु.ऐन.शे.शा.अ.अमदावाद, श्री १०८ जैनतीर्थदर्शन, २००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन, वाराणसी, चौखम्बा विद्याभवन, १९८५
४. प्राकृत भाषा और साहित्य का इतिहास - नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राकृत संस्कृत तत्त्व. के.आर.चन्द्रा प्राकृत टेकट सोसायटी, अमदावाद
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन, दिल्ली, २००२
७. प्राकृत गद्य-पद्य संवय (Selection from the works mentioned in CPRA2&5)
८. पौंड प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी, २०००
९. प्राकृत मार्गापदेशिका-पंडित बंजरदास दोशी.
१०. Introduction to Prakrit- Woolner A.C



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हेमचन्द्राचार्य उत्तर गुजरात युनिवर्सिटी पाटણ

PG Certificate Course in Prakrit
Semester-1

दोष - प्राकृत-१०२, विषय - प्राकृत गद्य -वद्य १ (महाराष्ट्री) अनुगत

पेपर - १०२

कुलसूच - ७०

युनिट-१. अेडम-१ वसुदेवहिण्डी (संनमुभाणुण कीडा पृ.१०५-६) कुवलयमालाकहा. (कुवलयमाला-कुवलयचंदाण उज्जाने मिलणं पृ.१६६-६८) भांशी प्रश्न पूछवा. (१४)

युनिट-२. अेडम-२ चउपन्नमहापुरिसचरियं (भडुरवायरिअमंतसिद्धि पृ.११८-२० आरामसोहा कहा (परंम से शरदान पाप्ति तक)भांशी प्रश्न पूछवा. (१४)

युनिट-३. अेडम-३ पउमचरियं (केगड परिणयणं-उदेउस-२४)लीलावईकहा (णयरी - रायावणणयो गाथा ३२-४२)भांशी प्रश्न पूछवा. (१४)

युनिट-४ अेडम-४ कहाखणकोस (चन्दना कहाणयं पृ.७०) धर्मापदेशमालाविवरण (चित्तयाद दारिया-पृ.) भांशी प्रश्न पूछवा. (१४)

युनिट-५. अेडम-५ वज्जालरण (कट्य,गाहा,मित्त्वज्ज) गाहासत्सई (गाथासगपुरी क्रमाका. २,४,१२,१७,१८,२२,२४, ३०, ३२, ३६, ३९, ४२, ४९, ५४, ५९, ६४, ६६, ६७, ७०, ७२, ७३,)भांशी प्रश्न पूछवा. (१४)



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2024

हेमचन्द्राचार्य उत्तर गुजरात युनिवर्सिटी, पाटण

PG Certificate Course in Prakrit

Semester-1

शोध:- प्राकृत-103, विषय - प्राकृत साहित्य परिचय

शोध उद्देश . विद्यार्थी प्राकृत विषयची परिचित थाय, विद्यार्थी प्राकृत व्याकरणची समज साथे प्राकृत परंपराची पण अवगत थाय.

| नं.प्र | विषय | शेकम |
|-------------|-----------------------|---|
| प्राकृत-103 | प्राकृत साहित्य परिचय | १. वसुदेवहिण्डी ,कुवलयमाळाकहा २. चउपन्नमहापुरिसचरिय, आरामसोहा कहा ३. पउमचरियं, लीलावईकहा ४. कहरयणकोस , धर्मोपदेशगालाविवरण ५. वज्जालरग, गहासत्सई |

संदर्भ पुस्तके .

- (१) प्राकृत स्वयं शिक्षक- पेमसुमन जैन
- (२) जैनसाहित्यनी लूहड इतिहास, भाग-६. गुलाबयन्द्र चौधरी. गुज.अनु.धेन.जे.शाह अमदावाद, श्री १०८ जैनतीर्थदर्शन,२००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन,१९८५
४. प्राकृत भाषा और साहित्य का इतिहास - नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राक संस्कृत तत्त्व. के.आर.चन्द्रा प्राकृत टेक्ट सोसायटी,अमदावाद
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन,दिल्ली,२००२
७. प्राकृत गद्य-पद्य संग्रह (Selection from the works mentioned in CPRA2&5)
८. प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी,२०००
९. प्राकृत मार्गापदेशिका-पंडित बेचरदास दोशी.
१०. Introduction to Prakrit- Woolner A.C




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PATAN



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हेमचन्द्राचार्य उत्तर गुजरात युनिवर्सिटी, पाटण

PG Certificate Course in Prakrit

Semester-1

कोर्स:- प्राकृत-१०३. विषय - प्राकृत साहित्य परिचय

पेपर . १०३

कुलगुण - ७०

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| युनिट-१ | श्लोक-१ वसुदेवहिण्डी . कुवलयमालाकहा. मांथी प्रश्न पूछवा. | (१४) |
| युनिट-२ | श्लोक-२ चउपन्नमहापुरिसचरियं . आरामसोहा कहा मांथी प्रश्न पूछवा. | (१४) |
| युनिट-३ | श्लोक-३ पउमचरियं . लीलावईकहा मांथी प्रश्न पूछवा. | (१४) |
| युनिट-४ | श्लोक-४ कहारयणकोस . धर्मोपदेशमालाविवरण मांथी प्रश्न पूछवा. | (१४) |
| युनिट-५ | श्लोक-५ वज्जालमं . गार्हामत्सई मांथी प्रश्न पूछवा. | (१४) |



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હેમચન્દ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

PG Certificate Course in Prakrit

Semester-૨

કોર્સ:- પ્રાકૃત-૧૦૩, વિષય - પ્રાકૃત વ્યાકરણ ૨ (શૌરસેની, માગધી, અર્ધમાગધી, પાલી, અપભ્રંશ અને અપઠિત અનુવાદ)

કોર્સ ઉદ્દેશ : વિદ્યાર્થી પ્રાકૃત વિષયથી પરિચિત થાય, વિદ્યાર્થી પ્રાકૃત વ્યાકરણની સમજ સાથે પ્રાકૃત પરંપરાથી પણ અવગત થાય.

| નંબર | વિષય | એકમ |
|-------------|-----------------|--|
| પ્રાકૃત-૨૦૧ | પ્રાકૃત વ્યાકરણ | ૧. શૌરસેની, માગધી, વ્યાકરણ. (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત) ૨. અર્ધમાગધી, અપભ્રંશ વ્યાકરણ. (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત) ૩. પાલી વ્યાકરણ (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત) ૪. અપઠિત અનુવાદ : પ્રાકૃતમાંથી ગુજરાતી અથવા હિન્દી અથવા અંગ્રેજી ૫. અપઠિત અનુવાદ : ગુજરાતી અથવા હિન્દી અથવા અંગ્રેજીમાંથી પ્રાકૃત |

સંદર્ભ પુસ્તકો :-

- (૧) પ્રાકૃત સ્વયં શિક્ષક- પ્રેમસુમન જૈન
- (૨) જૈનસાહિત્યનો બૃહદ ઇતિહાસ, ભાગ-૬, ગુલાબચન્દ્ર ચૌધરી, ગુજ.અનુ.એન.જે.શ.હ. અમદાવાદ, શ્રી ૧૦૮ જૈનતીર્થદર્શન, ૨૦૦૪
૩. પ્રાકૃત સાહિત્ય કા ઇતિહાસ - જગદીશચન્દ્ર જૈન, વારાણસી, ચૌહાણ વિદ્યામંડલ, ૧૯૮૫
૪. પ્રાકૃત ભાષા ઓર સાહિત્ય કા ઇતિહાસ - નેમિચન્દ્ર શાસ્ત્રી
૫. પ્રાકૃત ભાષાઓ કા તુલનાત્મક વ્યાકરણ અને ઉનમે પ્રાક સસ્કૃત તત્ત્વ. કે.આર.ચન્દ્રા પ્રાકૃત ટેક્ટ સોસાયટી, અમદાવાદ
૬. શૌરસેની પ્રાકૃત ભાષા વ્યાકરણ ઓર સાહિત્ય- રાજારામ જૈન, દિલ્લી, ૨૦૦૨
૭. પ્રાકૃત ગદ્ય-પદ્ય સંચય (Selection from the works mentioned in CPRA2&5)
૮. પ્રૌઢ પ્રાકૃત અપભ્રંશ રચના, કે.સી.સોગાની, અપભ્રંશ સાહિત્ય અકાદમી, ૨૦૦૦
૯. પ્રાકૃત માર્ગોપદેશિકા-પંડિત રેચરદાસ દોશી.
૧૦. Introduction to Prakrit- Woolner A.C




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કોર્સ:- પ્રાકૃત-૨૦૧, વિષય -પ્રાકૃત વ્યાકરણ ૨ (શૌરસેની, મારગધી, અર્ધમાગધી,પાલી, અપભ્રંશ એવ
અપઠિત અનુવાદ)

વેબર - ૨૦૧

કુલગુણ - ૭૦

યુનિટ-૧. એકમ-૧ શૌરસેની, મારગધી, વ્યાકરણ. (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત)માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૨. એકમ-૨ અર્ધમાગધી, અપભ્રંશ વ્યાકરણ. (નામ, ;સર્વનામ, ક્રિયા,કૃદન્ત)માંથી પ્રશ્ન પૂછવા.(૧૪)

યુનિટ-૩. એકમ-૩ પાલી વ્યાકરણ (નામ, ,સર્વનામ, ક્રિયા,કૃદન્ત)માંથી પ્રશ્ન પૂછવા. (૧૪)

યુનિટ-૪ એકમ-૪ અપઠિત અનુવાદ : પ્રાકૃતમાંથી ગુજરાતી અથવા હિન્દી અથવા અંગ્રેજીમાંથી પ્રશ્ન
પૂછવા. (૧૪)

યુનિટ-૫. એકમ-૫ અપઠિત અનુવાદ : ગુજરાતી અથવા હિન્દી અથવા અંગ્રેજીમાંથી પ્રાકૃત માંથી પ્રશ્ન
પૂછવા. (૧૪)



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श्रेष्ठ:- प्राकृत-202. विषय - प्राकृत गद्य-पद्य २ (शौरसेनी, मागधी, अर्धमागधी,पाली, अपभ्रंश (अनुवाद)

श्रेष्ठ उद्देश : विद्यार्थी प्राकृत विषयधी परिचित थाय, विद्यार्थी प्राकृत व्याकरण,नी समझ साथे

प्राकृत परंपराधी पण अवगत थाय.

| नंबर | विषय | श्रेष्ठम |
|-------------|---------------------|---|
| प्राकृत-202 | प्राकृत गद्य-पद्य २ | १. कर्पूरमंजरी (कविजल-विषयखण्डाकलहो जवनिका-१) ,मृच्छकटिकम् (वसतसेणाहयस्स मुति-अंक-२). २. भगवतीसूत्र (उणियाणं उवसियं शतक-१५, उत्तराध्ययनसूत्र (नमि पव्वज्जा अधयन-९) ३. ककजातक , धम्मपद (बालवग्गो) ४. परमप्प्यासु (२/१२८-१४३) करकंडचरित (संधि २/ कडवका १६-२८ ५. अशोक के शिलालेख १-३, कक्कुक-घटियाल शिलालेख |

संदर्भ पुस्तक :-

- (१) प्राकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यनो बृहद इतिहास, भाग-५, गुलाबचन्द्र चौधरी. गुज अनु. अ. न. १९६६, अमदावाद, श्री १०८ जैनतीर्थदर्शन, २००४
३. प्राकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन, १९८५
४. प्राकृत भाषा और साहित्य का इतिहास - नेमिचन्द्र शास्त्री
५. प्राकृत भाषाओं का तुलनात्मक व्याकरण एवं उनमें प्राक संस्कृत तत्त्व. के.आर.चन्द्रा प्राकृत टेकट सोसायटी,अमदावाद
६. शौरसेनी प्राकृत भाषा व्याकरण और साहित्य- राजाराम जैन,दिल्ली,२००२
७. प्राकृत गद्य-पद्य संचय (Selection from the works mentioned in CPRA2 &5)
८. प्रौढ प्राकृत अपभ्रंश रचना, के.सी.सोगानी, अपभ्रंश साहित्य अकादमी,२०००
९. प्राकृत मार्गापदेशिका-पंडित बचरदास दोशी.
१०. Introduction to Prakrit- Woolner A.C




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दोर्घ:- प्राकृत २०२. विषय - प्राकृत साहित्य परिचय

पेपर - २०२

कुलगुण - ७०

- युनिट-१. थोडम-१ कर्पूरमजरी (कविजल-विद्यस्वणाकलहो जवनिका-१), मूचकटिकम (वसतसेणाहगम्भ
मुति-अंक-२)मांथी प्रश्न पूछवा. (१४)
- युनिट-२. थोडम-२ भगवतीसूत्र (वणियाण उवमियं शतक-१७, उत्तरवाध्ययनसुत्र (नमि पव्वज्जा अथययन-२)
मांथी प्रश्न पूछवा. (१४)
- युनिट-३. थोडम-३ बकजातक , धम्मपद (कालवग्गो) मांथी प्रश्न पूछवा. (१४)
- युनिट-४. थोडम-४ परमप्प्यासु (२/१२८-१४३) करकंडचरिउ (संघि ४ कडवका १६-१८) मांथी प्रश्न पूछवा.
(१४)
- युनिट-५. थोडम-५ अशोक के शिलालेख १-३. कक्कु-घटियाल शिलालेख मांथी प्रश्न पूछवा. (१४)




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हेमचन्द्राचार्य उत्तर गुजरात युनिवर्सिटी, पाटણ

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छोर्ष:- प्रकृत 203. विषय - प्रकृत साहित्य परिषय २

छोर्ष छेदेश : विद्यार्थी प्रकृत विषयछी परिचित थाय, विद्यार्थी प्रकृत व्याकरणछी समझ साथे प्रकृत परंपराछी पछे अवगत थाय.

| नं.अर | विषय | छेकम |
|------------|------------------------|--|
| प्रकृत-203 | प्रकृत गदय-पदय २ | १. कर्पूरमंजरी, मृच्छकटिकम. २. भगवतीसूत्र, उत्तराध्ययनसुत्र ३. बकजातक, धम्मपद ४. परमपण्यासु करकंडवग्निउ ५. शिलालेख साहित्य |

संदर्भ पुस्तकः :-

- (१) प्रकृत स्वयं शिक्षक- प्रेमसुमन जैन
- (२) जैनसाहित्यको बृहद इतिहास, भाग-६. गुलाबचन्द्र चौधरी गुज.अनु.अ.जे.शा.इ. अमदावाड, श्री १०८ जैनतीर्थदर्शन, २००४
३. प्रकृत साहित्य का इतिहास - जगदीशचन्द्र जैन. वाराणसी, चौखम्बा विद्याभवन, १९८५
४. प्रकृत भाषा और साहित्य का इतिहास - नेमिचन्द्र शास्त्री
५. प्रकृत भाषाओं का तुलनात्मक व्याकरण एव उनमें प्राक संस्कृत तत्त्व. के.आर.चन्द्रा प्रकृत टेस्ट सोसायटी, अमदावाड
६. शौरसेनी प्रकृत भाषा व्याकरण और साहित्य- राजाराम जैन, दिल्ली, २००२
७. प्रकृत गदय-पदय संचय (Selection from the works mentioned in CPRA2 &5)
८. प्रौढ प्रकृत अपभ्रंश रचना, के.सी.सोयानी, अपभ्रंश साहित्य अकादमी, २०००
९. प्रकृत मार्गापदेशिका-पंडित बेचरदास दोशी.
१०. Introduction to Prakrit- Woolner A.C



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કોર્સ:- પ્રાકૃત-૨૦૩, વિષય - પ્રાકૃત સાહિત્ય પરિષય

પેપર - ૨૦૩

કુલગુણ - ૭૦

| | |
|--|------|
| યુનિટ-૧. એકમ-૧ કર્પૂરમંજરી, મૃષ્ટકકટિકમ માંથી પ્રશ્ન પૂછવા. | (૧૪) |
| યુનિટ-૨. એકમ-૨ ભગવતીસૂત્ર, ઉત્તરાધ્યયનસૂત્ર માંથી પ્રશ્ન પૂછવા | (૧૪) |
| યુનિટ-૩. એકમ-૩ શકજાતક , વમ્બવટ માંથી પ્રશ્ન પૂછવા. | (૧૪) |
| યુનિટ-૪ એકમ-૪ પરમપ્પ્યાયુ , કરકકચરિત માંથી પ્રશ્ન પૂછવા. | (૧૪) |
| યુનિટ-૫. એકમ-૫ શિલાલેખમાંથી પ્રશ્ન પૂછવા. | (૧૪) |




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ક્રમ ૧૩

હેમચન્દ્રચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

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આંતરિક પરીક્ષાનું માળખું નીચે મુજબ રહેશે.

કુલગુણ - 30

- (૧) આંતરિક પરીક્ષાને આધારે ૧૦ ટકા ગુણાંક
- (૨) સેમિનાર, વર્કશોપ, ચર્ચાસભાને આધારે ૧૦ ટકા ગુણ
- (૩) બુકરિવ્યુ / એસાઈનમેન્ટ આધારે ૧૦ ટકા ગુણાંક




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હેમચન્દ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

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Semester-1

| પેપર | વિષય કોડ | કોર્સનું નામ | કોર્સ ક્રેડિટ | અઠવાડિક વ્યાખ્યાન | આંતરિક પરીક્ષા | યુ.ની પરીક્ષા | કુલ ગુણ | પરીક્ષાનો સમય |
|------|----------|--|---------------|-------------------|----------------|---------------|---------|---------------|
| ૧ | ૧૦૧ | પ્રાકૃત વ્યાકરણ-૧ (મહારાષ્ટ્રી) | ૪ | ૪ | ૩૦ | ૩૦ | ૧૦૦ | ૩ |
| ૨ | ૧૦૨ | પ્રાકૃત ગદ્ય -પદ્ય ૧ (મહારાષ્ટ્રી) અનુવાદ | ૪ | ૪ | ૩૦ | ૩૦ | ૧૦૦ | ૩ |
| ૩ | ૧૦૩ | પ્રાકૃત સાહિત્ય પરિચય | ૪ | ૪ | ૩૦ | ૩૦ | ૧૦૦ | ૩ |

હેમચન્દ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ

PG Certificate Course in Prakrit
Semester-2

| પેપર | વિષય કોડ | કોર્સનું નામ | કોર્સ ક્રેડિટ | અઠવાડિક વ્યાખ્યાન | આંતરિક પરીક્ષા | યુ.ની પરીક્ષા | કુલ ગુણ | પરીક્ષાનો સમય |
|------|----------|--|---------------|-------------------|----------------|---------------|---------|---------------|
| ૧ | ૨૦૧ | પ્રાકૃત વ્યાકરણ-૨ (મહારાષ્ટ્રી) | ૪ | ૪ | ૩૦ | ૩૦ | ૧૦૦ | ૩ |
| ૨ | ૨૦૨ | પ્રાકૃત ગદ્ય -પદ્ય ૨ (મહારાષ્ટ્રી) અનુવાદ | ૪ | ૪ | ૩૦ | ૩૦ | ૧૦૦ | ૩ |
| ૩ | ૨૦૩ | પ્રાકૃત સાહિત્ય પરિચય- ૨ | ૪ | ૪ | ૩૦ | ૩૦ | ૧૦૦ | ૩ |




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PG Certificate Course in Prakrit

પ્રવેશના ધોરણો : કોઈ પણ વિદ્યા.શાખામાં સ્નાતક

કોર્સ અવધિ . ૧ વર્ષ ૨ સેમેસ્ટર

ઉત્તિર્ણ થવાના ધોરણો . યુનિવર્સિટીના ધારા ધોરણ અનુસાર

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NATIONAL CADET CORPS



GROOMING TOMORROW'S LEADERS

OFFERING NCC A GENERAL GENERIC ELECTIVE CREDIT
COURSE IN UNIVERSITIES UNDER CHOICE BASED CREDIT
SYSTEM TO ALIGN WITH NEW EDUCATION POLICY 2020

PROGRAM CODE : HNGU 3070



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CONTENTS

1. Section I : NCC Credit Course Design
2. Section II : NCC Credit Course Rules & Regulations aligned to UGC.

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SECTION I: NCC CREDIT COURSE DESIGN DOCUMENT

**UNDER CHOICE BASED CREDIT SYSTEM AS GENERAL ELECTIVE
FOR SENIOR DIVISION / SENIOR WING**

1. **Preamble.** The National Cadet Corps (NCC) is governed by NCC Act 1948 and attendant NCC Rules. It functions under the Ministry of Defence and is headed by DGNCC. It is organised into 17 State Directorates each headed by an Additional/Deputy Director General. The aims of NCC are:-

(a) To develop character, camaraderie, discipline, secular outlook, the spirit of adventure, sportsman spirit and ideals of selfless service amongst cadets by working in teams, honing qualities such as self-discipline, self-confidence, self-reliance and dignity of labour in the cadets.

(b) To create a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the Nation regard less of which career they choose.

(c) To provide a conducive environment to motivate young Indians to choose the Armed Forces as a career.

2. **Purpose.** Currently NCC training is imparted as extra-curricular activity to volunteer students from recognized schools and colleges who enroll as cadets. NCC as a Credit Course is designed with an intent to transform NCC training into a curricular activity from an extra-curricular thereby providing academic credits to students undergoing NCC training along with other attended advantages to the cadets in the college/ university.

3. **Introduction to NCC Credit Course Design.** Institutional Training is the mainstay of NCC training and it is conducted at colleges and universities by Associate NCC Officers and Armed Forces personnel. The application of knowledge gained through institutional training is further honed or developed to a higher degree in NCC Camps. The Institutional Training syllabus comprises Common Subjects and Specialised Subjects (military component). NCC Credit Course is designed to offer Institutional Training of Senior Wing /Division is over six semesters (three years), comprising 330 periods (excluding Camp), of which 150 periods are meant for theory with 10 credits and 180 periods for practical with 6 credits. Each period is counted as hour. The ratio between theory and practical in terms of number of hours of training is 5:6, but in terms of credits is 5:3, since as per CBCS two hours of practical is counted towards one period of training as against one hour for theory. In addition two separate courses have been designed for two Camps normally referred to as Annual Training Camps (ATC).




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Training schedules planned for cadets ensure that the optimum benefits of the NCC organization reach maximum number of cadets. The main emphasis is on practical training which in consonance with theory is made to facilitate active participation of learner, better assimilation of knowledge, and proper development of various skills, strengthening of mind and body which is the bedrock of NCC training.

| NCC GENERAL ELECTIVE CREDIT COURSE DESIGN SUMMARY | | | | | |
|--|--------------------------|------------------|-------------|--------------|--|
| Semester | Credits Allocated | | | Total | Remarks |
| | Theory | Practical | Camp | | |
| Semester - I | 01 | 01 | - | 02 | |
| Semester - II | 01 | 01 | - | 02 | |
| Semester - III | 01 | 01 | 05 | 07 | Credits of 1st Camp merged with 3rd Sem |
| Semester - IV | 02 | 01 | - | 03 | |
| Semester - V | 01 | 01 | 05 | 07 | Credits of 2nd Camp merged with 5th Sem |
| Semester - VI | 02 | 01 | - | 03 | |
| Total | 08 | 06 | 10 | 24 | Twenty-Four Credits |



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INSTITUTIONAL TRG SYLLABUS

| COMMON SUBJECTS | | | | |
|---------------------------------------|--|--------------------------------|------------|------------|
| Ser | Subject | Periods (1 hour duration each) | | Total |
| | | Lectures/Tutorials | Practicals | |
| 1 | NCC General | 06 | - | 06 |
| 2 | National Integration | 04 | | 04 |
| 3 | Drill | - | 45 | 45 |
| 4 | Weapon Training | - | 25 | 25 |
| 5 | Personality Development | 25 | | 25 |
| 6 | Leadership | 12 | - | 12 |
| 7 | Disaster Management | 13 | | 13 |
| 8 | Social Service & Community Development | 08 | 39 | 47 |
| 9 | Health & Hygiene | - | 10 | 10 |
| 10 | Adventure | 01 | | 01 |
| 11 | Environmental awareness & conservation | 03 | | 03 |
| 12 | Obstacle Training | - | 09 | 09 |
| 13 | General Awareness | 04 | | 04 |
| 14 | Border & Coastal Areas | 06 | | 06 |
| TOTAL HOURS COMMON SUBJECTS(a) | | 82 | 128 | 210 |

| SPECIALISED SUBJECTS (ARMY) | | | | |
|-----------------------------|----------------------------|--------------------------------|-----------|-----------|
| Ser | Subject | Periods (1 hour duration each) | | Total |
| | | Lectures/Tutorials | Practical | |
| 1 | Armed Forces | 09 | - | 09 |
| 2 | Map Reading | - | 24 | 24 |
| 3 | Communications | 03 | 03 | 06 |
| 4 | Infantry Weapons | 03 | 03 | 06 |
| 5 | Field Craft & Battle Craft | | 22 | 22 |
| 6 | Military History | 23 | - | 23 |
| Total Hours | | 38 | 52 | 90 |




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| SPECIALISED SUBJECTS (NAVY) | | | | |
|-----------------------------|----------------------------------|--------------------------------|------------|-------|
| Ser | Subject | Periods (1 hour duration each) | | Total |
| | | Lectures/Tutorials | Practicals | |
| 1 | Naval Orientation | 12 | - | 12 |
| 2 | Naval Communication | 02 | 18 | 20 |
| 3 | Navigation | 02 | 03 | 05 |
| 4 | Seamanship | 15 | 18 | 33 |
| 5 | Fire Fighting and Damage Control | 04 | 03 | 07 |
| 6 | Ship and Boat Modelling | 03 | 10 | 13 |
| Total hours | | 38 | 52 | 90 |

| SPECIALISED SUBJECTS (AIR FORCE) | | | | |
|----------------------------------|---------------------------|--------------------------------|------------|-------|
| Ser | Subject | Periods (1 hour duration each) | | Total |
| | | Lectures/Tutorials | Practicals | |
| 1 | General Service Knowledge | 08 | - | 08 |
| 2 | Air Campaign | 06 | 02 | 08 |
| 3 | Principles of flight | 06 | 06 | 12 |
| 4 | Airmanship | 01 | 07 | 08 |
| 5 | Navigation | 05 | - | 05 |
| 6 | Aeroengines | 06 | - | 06 |
| 7 | Basic flight Instruments | 03 | 03 | 06 |
| 8 | Aero modelling | 03 | 34 | 37 |
| Total Hours | | 38 | 52 | 90 |




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INSTITUTIONAL TRAINING: TOTAL HOURS & CREDITS

| INSTITUTIONAL TRAINING: TOTAL HOURS & CREDITS | | | |
|--|---|---|-------|
| ITEM | Periods (1 hour duration each) | | Total |
| | Lectures/Tutorials | Practicals | |
| TOTAL HOURS COMMON SUBJECTS | 82 | 128 | 210 |
| TOTAL HOURS SPECIALISED SUBJECTS (ARMY/NAVY/AIR FORCE) | 38 | 52 | 90 |
| TOTAL HOURS INSTITUTIONAL TRAINING | 120 | 180 | 300 |
| TOTAL CREDITS INSTITUTIONAL TRAINING | 08 CREDITS (15 HOUR THEORY = 1 CREDIT POINT) | 6 CREDITS (30 HOURS PRACTICAL TRAINING = 1 CREDIT POINT) | |




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NCC CAMP TRAINING SYLLABUS

| COMMON SUBJECTS | | | | |
|------------------------------------|--|--------------------------------|---------------------------------|----------------------------------|
| S No. | Subjects | Periods | | Total |
| | | L/T | P | |
| 1. | Physical Training | - | 18 | 18 |
| 2. | Drill | - | 32 | 32 |
| 3. | Weapon Training | 08 | 28 | 36 |
| 4. | National Integration and Awareness | 08 | - | 08 |
| 5. | Personality Development | 08 | 12 | 20 |
| 6. | Leadership | 08 | - | 08 |
| 7. | Disaster Management | 08 | - | 08 |
| 8. | Social Service and Community Development | - | 08 | 08 |
| 9. | Health & Hygiene | 08 | - | 08 |
| 10. | Obstacle Training | - | 04 | 04 |
| 11. | Military History | 04 | - | 04 |
| 12. | Communication | 04 | - | 04 |
| 13. | Games | - | 18 | 18 |
| 14. | Culture | - | 18 | 18 |
| | TOTAL | 56 | 138 | 194 |
| <u>SPECIALISED SUBJECTS</u> | | | | |
| 1. | Map Reading | - | 24 | 24 |
| 2. | Infantry Weapons | 04 | 02 | 06 |
| 3. | Field Craft & Battle Craft | - | 16 | 16 |
| | TOTAL | 04 | 42 | 46 |
| | GRAND TOTAL | 60 (4 credit) | 180 (6 credit) | 240 (10 credit) |



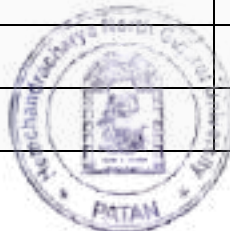

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NCC CAMP TRAINING SYLLABUS (FOR THEORY)

| Ser No | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|--------|----------------------------------|---|----|-----|----|----|----|-------|
| 1. | Weapon Training | - | - | 04 | - | 04 | - | 08 |
| 2. | National Integration & Awareness | - | - | 04 | - | 04 | - | 08 |
| 3. | Personality Development | - | - | 04 | - | 04 | - | 08 |
| 4. | Leadership | - | - | 04 | - | 04 | - | 08 |
| 5. | Disaster Management | - | - | 04 | - | 04 | - | 08 |
| 6. | Health & Hygiene | - | - | 04 | - | 04 | - | 08 |
| 7. | Military History | | | 02 | | 02 | | 04 |
| 8. | Communication | | | 02 | | 02 | | 04 |
| 9. | Infantry Weapons | - | - | 02 | - | 02 | - | 04 |
| | TOTAL | - | - | 30 | - | 30 | - | 60 |
| | TOTAL Credit | - | - | 2 | - | 2 | - | 4 |

NCC CAMP TRAINING SYLLABUS (FOR PRACTICAL)

| Ser No | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|--------|--|---|----|-----|----|----|----|-------|
| 1. | Physical Training | - | - | 09 | - | 09 | - | 18 |
| 2. | Drill | - | - | 16 | - | 16 | - | 32 |
| 3. | Weapon Training | - | - | 14 | - | 14 | - | 28 |
| 4. | Personality Development | - | - | 06 | - | 06 | - | 12 |
| 5. | Social Service and Community Development | - | - | 04 | - | 04 | - | 08 |
| 6. | Obstacle Training | - | - | 02 | - | 02 | - | 04 |
| 7. | Games | | | 09 | | 09 | | 18 |
| 8. | Culture | | | 09 | | 09 | | 18 |
| 9. | Map Reading | - | - | 12 | - | 12 | - | 24 |
| 10. | Infantry Weapons | - | - | 01 | - | 01 | - | 02 |
| 11. | Field Craft & Battle Craft | - | - | 08 | - | 08 | - | 16 |
| | TOTAL | | | 90 | | 90 | | 180 |
| | TOTAL CREDIT | | | 03 | | 03 | | 06 |



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SEMESTER WISE COURSE DESIGN

ARMY CADETS

NATIONAL CADET CORPS



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**INSTITUTIONAL TRAINING: SEMESTER WISE DISTRIBUTION OF NCC
SYLLABUS FOR THEORY (ARMY CADETS)**

| S. NO. | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|--------|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 1. | NCC General | 06 | - | - | - | - | - | 06 |
| 2. | National Integration | 04 | - | - | - | - | - | 04 |
| 3. | Personality Development | 02 | 05 | 05 | 04 | 06 | 04 | 25 |
| 4. | Leadership | - | 05 | 04 | 03 | - | - | 12 |
| 5. | Disaster Management | - | - | 03 | 10 | - | - | 13 |
| 6. | Social Service & Community Development | 03 | 05 | - | - | - | - | 08 |
| 7. | Adventure | - | - | 01 | - | - | - | 01 |
| 8. | Environmental Awareness & Conservation | - | - | - | 03 | - | - | 03 |
| 9. | General Awareness | - | - | - | 04 | - | - | 04 |
| 10. | Border & Coastal Areas | - | - | 02 | - | 02 | 02 | 06 |
| 11. | Armed Forces | - | - | - | 06 | - | 03 | 09 |
| 12. | Infantry Weapons | - | - | - | - | 3 | - | 3 |
| 13. | Communication | - | - | - | - | - | 03 | 03 |
| 14. | Military Hospital | - | - | - | - | 04 | 19 | 23 |
| | TOTAL | 15 | 15 | 15 | 30 | 15 | 30 | 120 |
| | TOTAL Credit | 1 | 1 | 1 | 2 | 1 | 2 | 08 |

**INSTITUTIONAL TRAINING: SEMESTER WISE DISTRIBUTION OF NCC
SYLLABUS FOR PRACTICAL (ARMY CADETS)**

| S. NO. | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|--------|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 1. | Drill | 12 | 12 | 08 | 07 | 03 | 03 | 45 |
| 2. | Field Craft & Battle Craft | 03 | 04 | 04 | 04 | 04 | 03 | 22 |
| 3. | Map Reading | 03 | 05 | 04 | 04 | 04 | 04 | 24 |
| 4. | Weapons Training | 05 | 04 | 04 | 04 | 04 | 04 | 25 |
| 5. | Communication | - | - | - | - | - | 03 | 03 |
| 6. | Infantry Weapons | - | - | - | - | - | 03 | 03 |
| 7. | Social Service & Community Development | 07 | 05 | 05 | 06 | 06 | 10 | 39 |
| 8. | Health & Hygiene | - | - | - | 05 | 05 | - | 10 |
| 9. | Operation Training | - | - | 05 | - | 04 | - | 09 |
| | TOTAL | 30 | 30 | 30 | 30 | 30 | 30 | 180 |
| | TOTAL Credit | 01 | 01 | 01 | 01 | 01 | 01 | 06 |




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INSTITUTIONAL TRAINING: SEMESTER WISE THEORY DETAILED SYLLABUS (ARMY CADETS)

| SEMESTER I | | | | | |
|----------------------|--|---------|----------|---|-----------|
| S.No | Subject | Periods | Chapter | Lesson | Hours |
| 1 | NCC General | 8 | NCC-I | Aims, Objectives and Org of NCC | 1 |
| | | | NCC-II | Incentives | 2 |
| | | | NCC-III | Duties of NCC Cadets | 1 |
| | | | NCC-IV | NCC Camps: Types and Conduct | 2 |
| 2 | National Integration and Awareness | 4 | NI-I | National Integration: Importance and Necessity | 1 |
| | | | NI-II | Factors affecting National Integration | 1 |
| | | | NI-III | Unity in Diversity | 1 |
| | | | NI-IV | Threats to National Security | 1 |
| 3 | Personality Development | 2 | PD - I | Factors Self-Awareness Empathy Critical and Creative Thinking Decision Making and Problem Solving | 2 |
| 4 | Social Service and Community Development | 3 | SSCD - I | Basics of Social Service Rural Development Programmes NGO's Contribution of Youth | 3 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER II | | | | | |
|----------------------|--|---------|---------|---|-----------|
| S.No | Subject | Periods | Chapter | Lesson | Hours |
| 5 | Personality Development | 5 | PD-II | Communication Skills | 3 |
| | | | PD-III | Group Discussion -Coping with Stress and Emotions | 2 |
| 6 | Leadership | 5 | L-I | Leadership Capsule Traits Indicators Motivation Moral Values Honour Code | 3 |
| | | | L-II | Case Studies Shivaji, Jhansi Ki Rani, | 2 |
| 7 | Social Service and Community Development | 5 | SS-IV | Protection of Children & Women Safety | 1 |
| | | | SS-V | Road/Rail Travel Safety | 1 |
| | | | SS-VI | New Initiatives | 2 |
| | | | SS-VII | Cyber and Mobile Security Awareness | 1 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |




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| SEMESTER III | | | | | |
|----------------------|-------------------------|-------|---------|--|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 3 | Personality Development | 5 | PD-II | Group Discussions - Change your Mindset | 2 |
| | | | PD-V | Public Speaking | 3 |
| 9 | Leadership | 4 | L-II | Case Studies - APJ Abdul Kalam, Deepa Malik, Maharana Pratap, N Narayan Murthy | 4 |
| 10 | Disaster Management | 3 | DM-I | Disaster Management Concept Organisation Types of Disasters Essential Services Assistance Civil Defence Organisation | 3 |
| 11 | Adventure | 1 | AD-I | Adventure activities | 1 |
| 12 | Border & Coastal Areas | 2 | BCA-I | History, Geography & Topography of Border/ Coastal Areas | 2 |
| TOTAL HOURS | | | | | 18 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER IV | | | | | |
|----------------------|-------------------------|-------|---------|---|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 13 | Personality Development | 4 | PD-III | Group Discussions - Time Management, Social Skills | 4 |
| 14 | Leadership | 3 | L-II | Case Studies - Ratan Tata, Rabindra Nath Tagore, Role of NCC cadets in 1965 war | 3 |
| 15 | Disaster Management | 3 | DM-II | Initiative Trg, Organising Skills, Dos and Don'ts Natural Disasters Man Made Disasters | 3 |
| | | | DM-III | Fire Services and Fire Fighting | 1 |
| 16 | Environmental Awareness | 3 | EA-I | Environmental Awareness and Conservation | 3 |
| 17 | General Awareness | 4 | GA-I | General Awareness | 4 |
| 18 | Armed Forces | 6 | AF-I | Army, Navy, Air Force and Central Armed Police Forces | 6 |
| TOTAL HOURS | | | | | 30 |
| TOTAL CREDITS | | | | | 2 |




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| SEMESTER V | | | | | |
|----------------------|---|-------|---------|--|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 19 | Personality Development | 6 | PD-III | Group Discussions - Team Work | 2 |
| | | | PD-V | Public Speaking | 4 |
| 20 | Border & Coastal Areas | 2 | BCA-I | Security Setup and Border/Coastal management in the area | 2 |
| 21 | Introduction to Infantry Battalion and its Equipments | 3 | INF-1 | Organisation of Infantry Battalion & its weapons | 3 |
| 22 | Military History | 4 | MH-3 | Study of Battles of Indo-Pak Wars 1955 & 1971 | 4 |
| TOTAL HOURS | | | | | 16 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER VI | | | | | |
|----------------------|-------------------------|-------|---------|---|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 25 | Personality Development | 3 | PD-IV | Career Counselling, GSB Procedure and Interview Skills | 3 |
| 27 | Border & Coastal Areas | 2 | BCA-II | Security Challenges & Role of cadets in Border management | 2 |
| 28 | Armed Forces | 3 | AF-2 | Modes of Entry into Army, Police and CAPF | 3 |
| 29 | Military History | 19 | MH-1 | Biographies of Renowned Generals | 6 |
| | | | MH-2 | War Heroes : Param Veer Chakra Awardees | 3 |
| | | | MH-2 | Study of Battles of Kargil | 2 |
| | | | MH-4 | War Movies | 8 |
| 30 | Communication | 3 | C-1 | Introduction to Communication & Latest Trends | 3 |
| TOTAL HOURS | | | | | 30 |
| TOTAL CREDITS | | | | | 2 |




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SEMESTER WISE COURSE DESIGN NAVAL CADETS



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INSTITUTIONAL TRAINING: SEMESTER WISE DISTRIBUTION OF NCC SYLLABUS FOR THEORY (NAVAL CADETS)

| S. NO. | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|--------|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 1 | NCC General | 6 | - | - | - | - | - | |
| 2 | NIA | 4 | - | - | - | - | - | |
| 3 | PD | 2 | 5 | 5 | 4 | 6 | 3 | |
| 4 | Leadership | - | 5 | 4 | 3 | - | - | |
| 5 | DM | - | - | 3 | 10 | - | - | |
| 6 | SSCD | 3 | 5 | - | - | - | - | |
| 7 | Adventure | - | - | 1 | - | - | - | |
| 8 | Environmental awareness & conservation | - | - | - | 3 | - | - | |
| 9 | General Awareness | - | - | - | 4 | - | - | |
| 10 | Border & Coastal Areas | - | - | 2 | - | 2 | 2 | |
| 11 | Naval Orientation | - | - | - | 6 | 3 | 3 | 12 |
| 12 | Naval Communication | - | - | - | - | 2 | - | 2 |
| 13 | Navigation | - | - | - | - | 2 | - | 2 |
| 14 | Seamanship | - | - | - | - | - | 15 | 15 |
| 15 | FFDC | - | - | - | - | - | 4 | 4 |
| 16 | Ship & Boat Modelling | - | - | - | - | - | 3 | 3 |
| | TOTAL | 15 | 15 | 15 | 30 | 15 | 30 | 120 |
| | TOTAL Credit | 1 | 1 | 1 | 2 | 1 | 2 | 08 |

INSTITUTIONAL TRAINING: SEMESTER WISE DISTRIBUTION OF NCC SYLLABUS FOR PRACTICAL(NAVAL CADETS)

| Ser | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|-----|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 1. | DRILL | 12 | 12 | 8 | 7 | 3 | 3 | 45 |
| 2. | Naval Communication | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| 3 | Navigation | - | - | - | - | - | 3 | 3 |
| 4 | Weapon Training | 5 | 4 | 4 | 4 | 4 | 4 | 25 |
| 5 | Seamanship | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| 6 | FFDC | - | - | - | - | - | 3 | 3 |
| 7 | Ship & Boat Modelling | - | 2 | 2 | 2 | 2 | 2 | 10 |
| 8 | SSCD | 7 | 5 | 5 | 6 | 5 | 10 | 38 |
| 9 | H&H | - | - | - | 5 | 5 | - | 10 |
| 10 | OT | - | - | 5 | - | 5 | 0 | 10 |
| 11 | TOTAL | 30 | 30 | 30 | 30 | 30 | 30 | 180 |
| | TOTAL Credit | 1 | 1 | 1 | 1 | 1 | 1 | 6 |



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INSTITUTIONAL TRAINING: SEMESTER WISE THEORY DETAILED SYLLABUS (NAVAL CADETS)

| <u>SEMESTER I</u> | | | | | |
|--------------------------|--|---------|----------|---|-----------|
| S.No | Subject | Periods | Chapter | Lesson | Hours |
| 1 | NCC General | 8 | NCC-I | Aims, Objectives and Org of NCC | 1 |
| | | | NCC-II | Incentives | 2 |
| | | | NCC-III | Duties of NCC Cadets | 1 |
| | | | NCC-IV | NCC Camps: Types and Conduct | 2 |
| 2 | National Integration and Awareness | 4 | NI-I | National Integration: Importance and Necessity | 1 |
| | | | NI-II | Factors affecting National Integration | 1 |
| | | | NI-III | Unity in Diversity | 1 |
| | | | NI-IV | Threats to National Security | 1 |
| 3 | Personality Development | 2 | PD - I | Factors Self-Awareness Empathy Critical and Creative Thinking Decision Making and Problem Solving | 2 |
| 4 | Social Service and Community Development | 3 | SSCD - I | Basics of Social Service Rural Development Programmes NGO's Contribution of Youth | 3 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |

| <u>SEMESTER II</u> | | | | | |
|---------------------------|--|---------|---------|---|-----------|
| S.No | Subject | Periods | Chapter | Lesson | Hours |
| 5 | Personality Development | 5 | PD-II | Communication Skills | 3 |
| | | | PD-III | Group Discussion -Coping with Stress and Emotions | 2 |
| 6 | Leadership | 5 | L-I | Leadership Capsule Traits Indicators Motivation Moral Values Honour Code | 3 |
| | | | L-II | Case Studies Shivaji, Jhansi Ki Rani, | 2 |
| 7 | Social Service and Community Development | 5 | SS-IV | Protection of Children & Women Safety | 1 |
| | | | SS-V | Road/Rail Travel Safety | 1 |
| | | | SS-VI | New Initiatives | 2 |
| | | | SS-VII | Cyber and Mobile Security Awareness | 1 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |



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| SEMESTER III | | | | | |
|----------------------|-------------------------|-------|---------|---|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 3 | Personality Development | 5 | PD-III | Group Discussions - Change your Mindset | 2 |
| | | | PD-V | Public Speaking | 3 |
| 8 | Leadership | 4 | L-II | Case Studies – APJ Abdul Kalam, Deepa Malik, Maharana Pratap, N Narayan Murthy | 4 |
| 10 | Disaster Management | 3 | DM-I | Disaster Management Capsule Organisation Types of Disasters Essential Services Assistance Civil Defence Organisation | 3 |
| 11 | Adventure | 1 | AD-I | Adventure activities | 1 |
| 12 | Border & Coastal Areas | 2 | BCA-I | History, Geography & Topography of Border/ Coastal Areas | 2 |
| TOTAL HOURS | | | | | 18 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER IV | | | | | |
|----------------------|-------------------------|-------|---------|--|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 13 | Personality Development | 4 | PD-III | Group Discussions - Time Management, Social Skills | 4 |
| 14 | Leadership | 3 | L-II | Case Studies – Ratan Tata, Rabindra Nath Tagore, Role of NCC cadets in 1965 war | 3 |
| 15 | Disaster Management | 9 | DM-II | Initiative Trg, Organising Skills, Dos and Don'ts Natural Disasters Man Made Disasters | 9 |
| | | 1 | DM-III | Fire Services and Fire Fighting | 1 |
| 16 | Environmental Awareness | 3 | EA-I | Environmental Awareness and Conservation | 3 |
| 17 | General Awareness | 4 | GA-I | General Awareness | 4 |
| 18 | Naval Orientation | 3 | AF-1 | Armed Forces and Navy Capsule | 3 |
| | | 3 | EEZ 1 | EEZ Maritime Security & ICG | 3 |
| TOTAL HOURS | | | | | 30 |
| TOTAL CREDITS | | | | | 2 |




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| SEMESTER V | | | | | |
|-------------------|-------------------------|-------|---------|--|-------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 19 | Personality Development | 6 | PD-III | Group Discussions - Team Work | 2 |
| | | | PD-V | Public Speaking | 4 |
| 20 | Border & Coastal Areas | 2 | BCA-II | Security Setup and Border/Coastal management in the area | 2 |
| 21 | Naval Orientation | 3 | NO-3 | Modes of Entry – IN, ICG, Merchant Navy | 3 |
| 22 | Naval Communication | 1 | NC-1 | Introduction to Naval Communications | 1 |
| | | 1 | NC - 2 | Semaphore | 1 |
| 23 | Navigation | 1 | N1 | Navigation of Ship- Basic Requirements | 1 |
| | | 1 | N2 | Chart Work | 1 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER VI | | | | | |
|--------------------|---|-------|----------|---|-------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 25 | Personality Development | 3 | PD-IV | Career Counselling, SSB Procedure and Interview Skills | 3 |
| 27 | Border & Coastal Areas | 2 | BCA-III | Security Challenges & Role of cadets in Border management | 2 |
| 28 | Naval Orientation | 3 | AF-2 | Naval Expeditions & Campaigns | 3 |
| 29 | Seamanship | 15 | MH-1 | Introduction to Anchor Work | 2 |
| | | | MH-2 | Rigging Capsule | 6 |
| | | | MH-3 | Boatwork – Parts of Boat | 2 |
| | | | MH-4 | Boat Pulling instructions | 2 |
| | | | MH-5 | Whaler Sailing Instructions | 3 |
| 30 | Fire Fighting Flooding & Damage Control | 2 | FFDC-1 | Fire Fighting | 2 |
| | | 2 | FFDC - 2 | Damage Control | 2 |
| | Ship Modelling | 3 | SM | Ship Modelling Capsule | 3 |
| TOTAL HOURS | | | | | 30 |
| TOTAL CREDITS | | | | | 2 |




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SEMESTER WISE COURSE DESIGN AIR FORCE CADETS

NATIONAL CADET CORPS



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INSTITUTIONAL TRAINING: SEMESTER WISE DISTRIBUTION OF NCC SYLLABUS FOR THEORY (AIR FORCE CADETS)

| S. NO. | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|--------|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 1 | NCC General | 6 | - | - | - | - | - | |
| 2 | NIA | 4 | - | - | - | - | - | |
| 3 | PD | 2 | 5 | 5 | 4 | 6 | 3 | |
| 4 | Leadership | - | 5 | 4 | 3 | - | - | |
| 5 | DM | - | - | 3 | 10 | - | - | |
| 6 | SSCD | 3 | 5 | - | - | - | - | |
| 7 | Adventure | - | - | 1 | - | - | - | |
| 8 | Environmental awareness & conservation | - | - | - | 3 | - | - | |
| 9 | General Awareness | - | - | - | 4 | - | - | |
| 10 | Border & Coastal Areas | - | - | 2 | - | 2 | 2 | |
| 11 | General Service Knowledge | - | - | - | 6 | - | 2 | |
| 12 | Air Campaign | - | - | - | - | - | 6 | |
| 13 | Principles of Fit | - | - | - | - | - | 6 | |
| 14 | Airmanship | - | - | - | - | 1 | - | |
| 15 | Navigation | - | - | - | - | - | 5 | |
| 16 | Aeroengines | - | - | - | - | - | 6 | |
| 17 | Basic fit Instr | - | - | - | - | 3 | - | |
| 18 | Aero modelling | - | - | - | - | 3 | - | |
| | TOTAL | 15 | 15 | 15 | 30 | 15 | 30 | 120 |
| | TOTAL Credit | 1 | 1 | 1 | 2 | 1 | 2 | 08 |

INSTITUTIONAL TRAINING: SEMESTER WISE DISTRIBUTION OF NCC SYLLABUS FOR PRACTICAL(AIR FORCE CADETS)

| Ser | SUBJECT | I | II | III | IV | V | VI | TOTAL |
|-----|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 1. | DRILL | 12 | 12 | 8 | 7 | 3 | 3 | 45 |
| 2. | PRINCIPLES OF FLIGHT | 3 | 3 | - | - | - | - | 6 |
| 3 | AIRMANSHIP | 3 | 4 | - | - | - | - | 7 |
| | AIR CAMPAIGN | | 2 | - | - | - | - | 2 |
| 4 | WT | 5 | 4 | 4 | 4 | 4 | 4 | 25 |
| 5 | BASIC FLIGHT INSTRUMENTS | - | - | 3 | - | - | - | 03 |
| 6 | AERO MODELLING | - | - | 5 | 8 | 8 | 13 | 34 |
| 7 | SSCD | 7 | 5 | 5 | 6 | 5 | 10 | 38 |
| 8 | H&H | - | - | - | 5 | 5 | - | 10 |
| 9 | OT | - | - | 5 | - | 5 | 0 | 10 |
| 10 | TOTAL | 30 | 30 | 30 | 30 | 30 | 30 | 180 |
| | TOTAL CREDIT | 1 | 1 | 1 | 1 | 1 | 1 | 6 |




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INSTITUTIONAL TRAINING: SEMESTER WISE THEORY DETAILED SYLLABUS (AIR FORCE CADETS)

| SEMESTER I | | | | | |
|----------------------|--|---------|----------|---|-----------|
| S.No | Subject | Periods | Chapter | Lesson | Hours |
| 1 | NCC General | 8 | NCC-I | Aims, Objectives and Org of NCC | 1 |
| | | | NCC-II | Incentives | 2 |
| | | | NCC-III | Duties of NCC Cadets | 1 |
| | | | NCC-IV | NCC Camps: Types and Conduct | 2 |
| 2 | National Integration and Awareness | 4 | NI-I | National Integration: Importance and Necessity | 1 |
| | | | NI-II | Factors affecting National Integration | 1 |
| | | | NI-III | Unity in Diversity | 1 |
| | | | NI-IV | Threats to National Security | 1 |
| 3 | Personality Development | 2 | PD - I | Factors Self-Awareness Empathy Critical and Creative Thinking Decision Making and Problem Solving | 2 |
| 4 | Social Service and Community Development | 3 | SSCD - I | Basics of Social Service Rural Development Programmes NGO's Contribution of Youth | 3 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER II | | | | | |
|----------------------|--|---------|---------|---|-----------|
| S.No | Subject | Periods | Chapter | Lesson | Hours |
| 5 | Personality Development | 5 | PD-II | Communication Skills | 3 |
| | | | PD-III | Group Discussion -Coping with Stress and Emotions | 2 |
| 6 | Leadership | 5 | L-I | Leadership Capsule Traits Indicators Motivation Moral Values Honour Code | 3 |
| | | | L-II | Case Studies Shivaji, Jhansi Ki Rani, | 2 |
| 7 | Social Service and Community Development | 5 | SS-IV | Protection of Children & Women Safety | 1 |
| | | | SS-V | Road/Rail Travel Safety | 1 |
| | | | SS-VI | New Initiatives | 2 |
| | | | SS-VII | Cyber and Mobile Security Awareness | 1 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |



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| SEMESTER III | | | | | |
|----------------------|-------------------------|-------|---------|--|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 3 | Personality Development | 5 | PD-III | Group Discussions - Change your Mindset | 2 |
| | | | PD-V | Public Speaking | 3 |
| 9 | Leadership | 4 | L-II | Case Studies – APJ Abdul Kalam, Deepa Malik, Maharana Pratap, N Narayan Murthy | 4 |
| 10 | Disaster Management | 3 | DM-I | Disaster Management Capsule Organisation Types of Disasters Essential Services Assistance Civil Defence Organisation | 3 |
| 11 | Adventure | 1 | AD-I | Adventure activities | 1 |
| 12 | Border & Coastal Areas | 2 | BCA-I | History, Geography & Topography of Border/ Coastal Areas | 2 |
| TOTAL HOURS | | | | | 18 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER IV | | | | | |
|----------------------|---------------------------|-------|---------|---|-----------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 13 | Personality Development | 4 | PD-III | Group Discussions - Time Management, Social Skills | 4 |
| 14 | Leadership | 3 | L-II | Case Studies – Ratan Tata, Rabindra Nath Tagore, Role of NCC cadets in 1965 war | 3 |
| 15 | Disaster Management | 9 | DM-II | Initiative Trg, Organising Skills, Dos and Don'ts Natural Disasters Man Made Disasters | 9 |
| | | 1 | DM-III | Fire Services and Fire Fighting | 1 |
| 16 | Environmental Awareness | 3 | EA-I | Environmental Awareness and Conservation | 3 |
| 17 | General Awareness | 4 | GA-I | General Awareness | 4 |
| 18 | General Service Knowledge | 6 | GSK-1 | Armed Forces & IAF Capsule | 2 |
| | | | GSK-2 | Modes of Entry in IAF, Civil Aviation | 2 |
| | | | GSK-3 | Aircrafts – Types, Capabilities & Role | 2 |
| TOTAL HOURS | | | | | 30 |
| TOTAL CREDITS | | | | | 2 |




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| SEMESTER V | | | | | |
|-------------------|--------------------------|-------|---------|--|-------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 19 | Personality Development | 6 | PD-III | Group Discussions - Team Work | 2 |
| | | | PD-V | Public Speaking | 4 |
| 20 | Border & Coastal Areas | 2 | BCA-II | Security Setup and Border/Coastal management in the area | 2 |
| 21 | Airmanship | 1 | A-1 | Airmanship | 1 |
| 22 | Basic Flight Instruments | 3 | FI-1 | Basic Flight Instruments | 3 |
| 23 | Aero Modelling | 3 | AM-1 | Aero-modelling Capsule | 3 |
| TOTAL HOURS | | | | | 15 |
| TOTAL CREDITS | | | | | 1 |

| SEMESTER VI | | | | | |
|--------------------|---------------------------|-------|---------|---|-------|
| S.No | Subject | hours | Chapter | Lesson | HOURS |
| 24 | Personality Development | 3 | PD-IV | Career Counselling, SSB Procedure and Interview Skills | 3 |
| 25 | Border & Coastal Areas | 2 | BCA-III | Security Challenges & Role of cadets in Border management | 2 |
| 26 | General Service Knowledge | 6 | GSK-4 | Latest Trends & Acquisitions | 2 |
| 27 | Air Campaigns | 6 | AC-1 | Air Campaigns | 6 |
| 28 | Principles of Flight | 6 | PF-1 | Principle of Flight | 3 |
| | | | PF-2 | Forces acting on aircraft | 3 |
| 29 | Navigation | 5 | NM-1 | Navigation | 2 |
| | | | NM-2 | Introduction to Met and Atmosphere | 3 |
| 30 | Aero Engines | 6 | E-1 | Introduction and types of Aero Engine | 3 |
| | | | E-2 | Aircraft controls | 3 |
| TOTAL HOURS | | | | | 30 |
| TOTAL CREDITS | | | | | 2 |




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SIX SEMESTER NCC COURSE SYLLABUS

Training Objectives: Institutional Training

1. Institutional training includes basic military training of the cadets as part of the curriculum with its long-standing effort to mould young volunteers into disciplined and responsible citizens of India. NCC course is aimed to achieve following learning objectives:-

- (a) Develop character, camaraderie, discipline, secular outlook, the spirit of adventure, sportsman spirit and ideals of selfless service amongst cadets by working in teams, honing qualities such as self-discipline, self-confidence, self-reliance and dignity of labour in the cadets.
- (b) To create interest in cadets by including and laying emphasis on those aspects of Institutional Training which attract young cadets into the NCC and provides them an element of thrill and excitement.
- (c) To inculcate defence Services work ethos that is characterized by hard work, sincerity of purpose, honesty, ideal of selfless service, dignity of labour, secular outlook, comradeship, spirit of adventure and sportsmanship.
- (d) To create a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the Nation regardless of which career they choose.
- (e) To provide conducive environment to motivate young Indians to choose the Armed Forces as a career.




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SEMESTER I COURSE MODULE : NATIONAL CADET CORPS I

| National Cadet Corps : Course Details | | | |
|--|---|------------------------|-------------------------------|
| Course Title: National Cadet Corps I | | | |
| Course Code | BNCC01GE03 | Credits | 1(Thr)+ 1(Pr) = 03 |
| L /T + P | 15+30 | Course Duration | 1 Semester |
| Semester | I (Odd) | Contact Hours | 15(Thr)+30(Pr)=45Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, Seminar presentations by students, individual and group drills, group and individual field-based assignments, Educational Excursion | | |
| Assessment and Evaluation | As per the University norms i.e, 25% internal assessment and 75% end term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (I) Theory

2. Course Objectives: Cadets will be able to: -

- (a) Know about the history of NCC, its organization, and incentives of NCC for their career prospects.
- (b) Acquire knowledge of duties and conduct of ncc cadets.
- (c) Understand about different NCC camps and their conducts.
- (d) Understand the concept of national integration and its importance.
- (e) Understand the concept of self-awareness and emotional intelligence.
- (f) Understand the concept of critical & creative thinking.
- (g) Understand the process of decision making & problem solving.
- (h) Understand the concept of team and its functioning.
- (i) Understand the concept and importance of Social service.




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3. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (a) Imbibe the conduct of NCC cadets.
- (b) Respect the diversity of different Indian culture.
- (c) Practice togetherness and empathy in all walks of their life.
- (d) Do their own self analysis and will workout to overcome their weakness for better performance in all aspects of life.
- (e) Understand creative thinking & its components.
- (f) Think divergently and will try to break functional fixedness.
- (g) Make a team and will work together for achieving the common goals.
- (h) Do the social services on different occasions.

4. **Course Content Part (I) Theory**

- (a) **Unit 1- NCC General (N) (Contact Hrs. 06).** Introduction of NCC, History, Aims, Objective of NCC & NCC as Organization, Incentives of NCC, Duties of NCC Cadet. NCC Camps: Types & Conduct.
- (b) **Unit 2- National Integration & Awareness (NI) (Contact Hrs. 04) .** National Integration: Importance & Necessity, Factors Affecting National Integration, Unity in Diversity & Role of NCC in Nation Building, Threats to National Security.
- (c) **Unit 3- Personality Development (Contact Hrs. 3).** Intra & Interpersonal skills - Self-Awareness- & Analysis, Empathy, Critical & creative thinking, Decision making and problem solving.
- (d) **Unit 4- Social Service and Community Development(Contact Hrs. 02).** Basics of social service and its need, Types of social service activities, Objectives of rural development programs and its importance, NGO's and their contribution in social welfare, contribution of youth and NCC in Social welfare.

Course Content Part (II) Practical

5. **Course Objectives:** Cadets will be able to: -

- (a) Understand that drill as the foundation for discipline and to command a group for common goal.
- (b) Appreciate grace and dignity in the performance of foot drill.
- (c) Understand the importance of a weapon its detailed safety precautions necessary for prevention of accidents.



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- (d) Develop awareness about different types of terrain and how it is used in battle craft.
- (e) Develop the concept of various markings on the map and how they are co-related to the ground features.
- (f) Understand the various social issues and their impact on social life.
- (g) Develop the sense of self-less social service for better social & community life.

6. **Expected Learning Outcomes:** After completing this course, the cadets will be able to: -

- (a) Perform foot drill and follow the different word of command.
- (b) Fire a weapon effectively with fair degree of marksmanship.
- (c) Undertake point to point navigation and take part in route marches by day and night.
- (d) Perform the social services on various occasions for better community & social life.

7. **Course Content Part (II) Practical**

- (a) **Unit 1. Drill (Contact Hrs. 12).** Foot Drill- Drill ki Aam Hidayaten, Word ki Command, Savdhan, Vishram, Aram Se, Murdna, Kadvar Sizing, Teen Line Banana, Khuli Line, Nikat Line, Khade Khade Salute Karna Parade Par, Visarjan, Line Tod, Tej Chal, Tham aur Dhire Chal, Tham.
- (b) **Unit 2. Weapon Training (WT) (Contact Hrs. 05).** Introduction & Characteristics of .22 rifle, Handling of .22 rifle.
- (c) **Unit 3. Map Reading (MR) (Contact Hrs. 03).** Definition of Map, Conventional signs, Scale and Grid System, Topographical forms and technical terms, Relief, Contours and gradients, Cardinal points and types of North, Magnetic Variation and Grid Convergence.
- (d) **Unit 4. Field Craft & Battle Craft (FC & BC) (Contact Hrs. 03).** Introduction of Field Craft & Battle craft, Judging Distance, Method of Judging Distance.
- (e) **Unit 5. Social Service and Community Development (SSCD)(Contact Hrs.07).** Cadets will participate in various activities throughout the semester e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc.




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SEMESTER II COURSE MODULE : NATIONAL CADET CORPS II

| Course Title: National Cadet Corps II | | | |
|--|---|------------------------|-------------------------------|
| Course Code | BNCC02GE03 | Credits | 1(Thr)+ 1(Pr)=02 |
| L /T + P | 15+30 | Course Duration | 1 Semester |
| Semester | II (Even) | Contact Hours | 15(Thr)+30(Pr)=45Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, Seminar presentations by students, individual and group drills, group and individual field-based assignments, Educational Excursion | | |
| Assessment and Evaluation | As per the University norms i.e. 25% internal assessment and 75% End of term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (I) Theory

8. Course Objectives: Cadets will be able to: -

- (a) Understand the thinking & reasoning process.
- (b) Understand the process to cope with Stress & emotions.
- (c) Understand the importance of improving communication skills.
- (d) Identify the leadership traits.
- (e) Admire the qualities of great leaders.
- (f) Know about different legal provisions for children & women safety and protection.
- (g) Understand the various rules & measures to be taken to ensure Road/Rail safety.
- (h) Understand & spread awareness about latest Government initiatives for welfare of citizens and contribute towards Nation building.
- (i) Understand concepts of cyber and mobile security.



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9. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (a) Define thinking, reasoning, critical thinking and creative thinking.
- (b) To think critically about different life related issues.
- (c) Think divergently and will try to break functional fixedness.
- (d) Creatively in their real-life problems.
- (e) Understand the organizations related to disaster management and their functioning.
- (f) Appreciate the role of NCC cadets in disaster management.

10. **Course Content Part (I) Theory**

(a) **Unit 1. Personality Development (Contact Hrs.5)**

- (i) Thinking- Meaning and Concept of thinking, Reasoning, Process of thinking.
- (ii) Critical Thinking- Meaning & concept of critical thinking, Features of critical thinking, Process of critical thinking.
- (iii) Creative thinking- Meaning & concept of creative thinking, Features of creative thinking, Process of creative thinking, levels of Creativity, Characteristics of creative person.

(b) **Unit 2. Leadership Development (Contact Hrs.5)**

- (i) Leadership capsule.
- (ii) Important Leadership traits, Indicators of leadership and evaluation.
- (iii) Motivation- Meaning & concept, Types of motivation. Factors affecting motivation.
- (iv) Ethics and Honor codes.

(c) **Unit 3. Social Service and Community Development (Contact Hrs. 5)**

- (i) Protection of Children & Women Safety.
- (ii) Road/Rail Safety.
- (iii) New Government Initiatives.
- (iv) Cyber and mobile Security Awareness.




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Course Content Part (II) Practical

11. **Course Objectives.** Cadets will be able to: -
- (a) Understand that drill as the foundation for discipline and to command a group for common goal.
 - (b) Appreciate grace and dignity in the performance of foot drill.
 - (c) Understand the importance of a weapon its detailed safety precautions necessary for prevention of accidents.
 - (d) Use terrain effectively for concealment, camouflage, indicate landmarks and give field signals.
12. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -
- (a) Perform foot drill gracefully.
 - (b) Give and follow the different word of command.
 - (c) Fire a weapon effectively with fair degree of marksmanship.
 - (d) Use of bearing and service protractor and locate the places and objects on the ground.
 - (e) Do the social service and feel connected with social problems.
13. **Course Content Part (II) Practical**
- (a) **Unit 1. Drill (Contact Hrs. 12)**
 - (i) Foot Drill Dahine, Baen, Ageaur Piche Kadam Lena.
 - (ii) Tej Chal se Murdna, Tej Chal se Salute Karna, Tej Kadam Taal aur Tham, Tej Kadam Taal se Kadam Badalna.
 - (iii) Teeno Teen se Ek File aur ek file se Teeno Teen Banana
 - (b) **Unit 2. Weapon Training (Contact Hrs. 04)**
 - (i) Range procedure & Theory of group.
 - (ii) Short Range firing.
 - (c) **Unit 3. Map Reading (Contact Hrs. 05)**
 - (i) Protractor Bearing and its conversion methods.
 - (ii) Service protractor and its uses.
 - (iii) Prismatic compass and its uses and GPS.
 - (iv) Navigation by compass and GPS.




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(d) **Unit 4. Field Craft & Battle Craft (Contact Hrs. 04)**

(i) Indications of landmarks and Targets.

(ii) Intro, Definitions, Types of Ground, Indication of Landmarks, Methods of identification of targets, difficult targets.

(e) **Unit 5. Social Service and Community Development (Contact Hrs. 05)**

Cadets will participate in various activities throughout the semester e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc. as per the requirement and similar announced days- National and state level.




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SEMESTER III COURSE MODULE : NATIONAL CADET CORPS III

| <u>COURSE TITLE: NATIONAL CADET CORPS III</u> | | | |
|--|---|------------------------|-------------------------------|
| Course Code | BNCC03GE02 | Credits | 1(Thr)+ 1(Pr)=02 |
| L /T + P | 15 +30 | Course Duration | 1 Semester |
| Semester | III (Odd) | Contact Hours | 15(Thr)+30(Pr)=45Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, Seminar presentations by students, individual and group drills, group and individual field-based assignments, Educational Excursion | | |
| Assessment and Evaluation | As per the University norms i.e. 25% internal assessment and 75% End of term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (I) Theory

14. **Course Objectives**. Cadets will be able to: -
- Understand the life history and leadership qualities of great leaders, sportspersons & entrepreneurs.
 - Understand the various aspects of types of mindset.
 - Understand public speaking methods & qualities.
 - Understand the organizations related to disaster management and their functioning.
 - Understand the role of NCC cadets in disaster management.
 - Understand the various types of adventure activities.
 - Understand the History, Geography & Topography of Border/ Coastal Areas.



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15. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (a) Admire and get inspired from the accomplishments of leaders from various walks of life.
- (b) Develop public speaking skills.
- (c) Understand the importance of positive mindset and optimistic attitude in life.
- (d) Appreciate the need & requirement for disaster management and his role in disaster management activities.
- (e) Know the history & geographical peculiarity of our borders & coastal regions.

16. **Course Content Part (I) Theory**

- (a) **Unit 1. Personality Development (Contact Hrs.5)**
 - (i) Group Discussions - Change your Mindset
 - (ii) Public Speaking.
- (b) **Unit 2. Leadership Development (Contact Hrs.4).** Case Studies – APJ Abdul Kalam, Deepa Malik, Maharana Pratap, N Narayan Murthy.
- (c) **Unit 3. Disaster management(Contact Hrs. 3)**
 - (i) Disaster Management Capsule.
 - (ii) Organisation.
 - (iii) Types of Disasters.
 - (iv) Essential Services.
 - (v) Assistance.
 - (vi) Civil Defence Organisation.
- (d) **Adventure (Contact Hrs. 1).** Adventure activities.
- (e) **Border & Coastal Areas(Contact Hrs. 2).** History, Geography & Topography of Border/ Coastal Areas.




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Course Content Part (II) Practical

17. **Course Objectives.** Cadets will be able to : -
- (a) Understand that drill as the foundation for discipline and to command a group for common goal
 - (b) Appreciate grace and dignity in the performance of arm drill
 - (c) Understand the concept and importance of social service.
 - (d) Understand the importance of a weapon its detailed safety precautions necessary for prevention of accidents.
 - (e) Actively participate in social service and community development activities.
18. **Expected Learning Outcomes.**After completing this course, the cadets will be able to: -
- (a) Perform arm drill gracefully.
 - (b) Give and follow the different word of command.
 - (c) Fire a weapon effectively with fair degree of marksmanship.
 - (d) Different positioning for fire and aiming.
 - (e) Use terrain effectively for concealment, camouflage, indicate landmarks and give field signals.
 - (f) Observe surroundings in better way.
 - (g) Develop the qualities of patience and confidence and become better individuals.
 - (h) Will develop physical as well as mental fitness.
19. **Course Content Part (II) Practical**
- (a) **Unit 1. Drill(Contact Hrs. 08)**
 - (i) Arm Drill.
 - (ii) Rifle ke saath Savdhan, Vishram aur Aram se.
 - (iii) Rifle ke saath Parade Par aur Saj, Rifle ke saath Visarjan, Line Tod.
 - (iv) Bhumi Shastra aur Uthao Shastra, Bagal Shastra aur Baju Shastra.
 - (b) **Unit 2. Weapon Training(Contact Hrs. 04).** Short Range firing.
 - (c) **Unit 3. Map Reading (Contact Hrs. 04).**
 - (i) Setting of Map.
 - (ii) Findings North and Own Position.




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(d) **Unit 4. Field Craft & Battle Craft (Contact Hrs. 04)**

- (i) Observation.
- (ii) Camouflage.
- (iii) Concealment.

(e) **Unit 5. Social Service and Community Development (Contact Hrs. 05).**

Cadets will participate in various activities throughout the semester e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc as per the requirement and similar announced days- National and State level.

(f) **Unit 6. Obstacle Training(Contact Hrs. 05)**

- (i) Obstacle training - Introduction, Safety-measures, Benefits.
- (ii) Obstacle Course- Straight balance, Clear Jump, Gate Vault, Zig- Zag Balance, High Wall.




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SEMESTER IV COURSE MODULE : NATIONAL CADET CORPS IV

| Course Title: National Cadet Corps IV | | | |
|--|---|------------------------|------------------------|
| Course Code | BNCC04GE03 | Credits | 2(Thr)+ 1(Pr)=03 |
| L /T + P | 30+30 | Course Duration | 1 Semester |
| Semester | IV (Even) | Contact Hours | 30(Thr)+30(Pr)=60Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, Seminar presentations by students, individual and group drills, group and individual field-based assignments, Educational Excursion | | |
| Assessment and Evaluation | As per the University norms i.e. 25% internal assessment and 75% End of term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (I) Theory

20. **Course Objectives.** Cadets will be able to: -
- Develop a sense of time management and social skills.
 - Understand the life history & leadership qualities of personalities who have contributed in Nation Building and Literature.
 - Understand the role of NCC cadets as 2nd line Defence in 1965 War.
 - Develop awareness about various types of Natural and manmade disasters.
 - Know about life saving tips during disasters.
 - acquainted about Fire Services.
 - Understand importance of Environmental Awareness & conservation.
 - Understand importance of General Awareness.
 - Know about Armed Forces.




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(b) **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (i) Effectively Manage time.
- (ii) Develop the qualities of social skills.
- (iii) Imbibe leadership qualities.
- (iv) Do group discussions effectively.
- (v) Be motivated to serve the nation by joining Armed forces.
- (vi) Contribute in environmental awareness and conservation activities.
- (vii) Keep abreast of current affairs & general awareness.
- (viii) Effectively contribute in managing disaster relief tasks.

21. **Course Content Part (I) Theory**

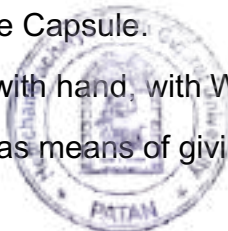
- (a) **Unit 1. Personality Development (Contact Hrs.4).** Group Discussions – Social Skills & Time management.
- (b) **Unit 2. Leadership Development (Contact Hrs.3).** Case Studies – Case Studies – Ratan Tata, Rabindra Nath Tagore, Role of NCC cadets in 1965 war.
- (c) **Unit 3. Disaster management(Contact Hrs. 10)**
 - (i) Initiative Trg, Organising Skills.
 - (ii) Dos and Don'ts.
 - (iii) Natural Disasters.
 - (iv) Man Made Disasters.
 - (v) Fire Services and Fire Fighting.
- (d) **Environmental Awareness (Contact Hrs. 3).** Adventure Environmental Awareness and Conservation.
- (e) **General Awareness (Contact Hrs. 4).** General Awareness.
- (f) **Armed Forces(Contact Hrs. 6).** Army, Navy, Air Force and Central Armed Police Forces.



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Course Content Part (II) Practical

22. **Course Objectives.** Cadets will be able to: -
- (a) Understand that drill as the foundation for discipline and to command a group for common goal.
 - (b) Understand various signals to convey messages in the army.
 - (c) Get acquainted various section formations.
 - (d) Understand the basics of personal and public hygiene.
 - (e) Get acquainted with the procedure to treat the wounds and fractures during emergencies.
23. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -
- (a) Perform weapon drill gracefully.
 - (b) Give and follow the different word of command.
 - (c) Appreciate grace and dignity in the performance of foot drill.
 - (d) Apply signals in there day to day functioning.
 - (e) Provide first aid during the emergencies.
 - (f) Navigate to the given location on ground using compass and GPS.
 - (g) Practice healthy practices for the personal sanitation and hygiene.
24. **Course Content Part (II) Practical**
- (a) **Unit 1. Drill (Contact Hrs. 08)**
 - (i) Arm Drill.
 - (ii) Salami Shastra.
 - (iii) Squad Drill with Arms.
 - (b) **Unit 2. Weapon Training (Contact Hrs. 04).** Short Range firing
 - (c) **Unit 3. Map Reading(Contact Hrs. 04)**
 - (i) Map to Ground.
 - (ii) Ground to Map.
 - (d) **Unit 4. Field Craft & Battle Craft(Contact Hrs. 04)**
 - (i) Fire and Move Capsule.
 - (ii) Field signal- with hand, with Weapons, Signal with Whistle
 - (iii) Field signals as means of giving orders.




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(iv) Field signals by day, Field signals by night.

(v) Section Formation.

(e) **Unit 5. Social Service and Community Development(Contact Hrs. 05)**

Cadets will participate in various activities throughout the semester e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc as per the requirement and similar announced days- National and State level.

(f) **Unit 6. Health & Hygiene(Contact Hrs. 05)**

(i) Hygiene & Sanitation (Hygiene- Personal & Camp Hygiene).

(ii) First Aid in common medical emergencies.

(iii) Treatment & Care of Wounds.




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SEMESTER V COURSE MODULE : NATIONAL CADET CORPS V

| Course Title: National Cadet Corps V | | | |
|---|---|------------------------|-------------------------------|
| Course Code | BNCC05GE02 | Credits | 1(Thr)+ 1(Pr)=02 |
| L /T + P | 15 +30 | Course Duration | 1 Semester |
| Semester | V (Odd) | Contact Hours | 15(Thr)+30(Pr)=45Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, Seminar presentations by students, individual and group drills, group and individual field-based assignments, Educational Excursion | | |
| Assessment and Evaluation | As per the University norms i.e. 25% internal assessment and 75% End of term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (I) Theory

25. **Course Objectives.** Cadets will be able to: -
- Understand the concept of Team and its functioning.
 - Hone Public speaking skills.
 - Understand the security set up and management of Border/Coastal areas.
 - Acquire knowledge about an Infantry Battalion organisation and its weapons.
 - Acquire knowledge about Indo-Pak Wars fought in 1965 & 1971.
26. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -
- Participate in team building exercise and value team work.
 - Improve communication skills by public speaking activities.
 - Understand the security mechanism and management of Border/Coastal areas.
 - Get motivated to join armed forces.




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27. **Course Content Part (I) Theory**

- (a) **Unit 1. Personality Development (Contact Hrs.6).**
 (i) Group Discussions –Team work.
 (ii) Public speaking.
- (b) **Unit 2. Border & Coastal Areas(Contact Hrs.2).** Security Setup and Border/Coastal management in the area.
- (c) **Unit 3. Introduction to Infantry Battalion and its Equipment(Contact Hrs. 3).** Organisation of Infantry Battalion & its weapons
- (d) **Military History(Contact Hrs. 4).** Study of Battles of Indo-Pak Wars 1965 & 1971.

Course Content Part (II) Practical

28. **Course Objectives.** Cadets will be able to: -
 (a) Understand that drill as the foundation for discipline and to command a group for common goal.
 (b) Appreciate grace and dignity in the performance of ceremonial drill.
 (c) Use the compass and GPS to locate places on the ground and map.
29. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -
 (a) Perform ceremonial drill and follow the different word of command.
 (b) Do the social service on various occasions and get connected with the community.
 (c) Do all the asana and gain the physical& mental fitness.
30. **Course Content Part (II) practical**
- (a) **Unit 1. Drill(Contact Hrs. 03)**
 (i) Ceremonial Drill.
 (ii) Guard Mounting.
- (b) **Unit 2. Field Craft & Battle Craft(Contact Hrs. 04)**
 (i) Fire control orders.
 (ii) Types of fire control orders.




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(iii) Fire and Movement- when to use fire and movements tactics, Basic considerations, Appreciation of ground cover, Types of cover, Dead ground, Common Mistakes, Map and air photography, Selection of Fire position and fire control.

(c) **Unit 3. Map Reading(Contact Hrs. 04).** Google Maps & applications

(d) **Unit 4. Weapon Training(Contact Hrs. 04).** Short Range firing

(e) **Unit 5. Social Service and Community Development (Contact Hrs. 05)**
Cadets will participate in various activities throughout the semester e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc. as per the requirement and similar announced days- National and State level.

(f) **Unit 6. Health & Hygiene(Contact Hrs. 05)**

(i) Yoga- Introduction, Definition, Purpose, Benefits.

(ii) Asanas-Padamsana, Siddhasana, Gyan Mudra, Surya Namaskar, Shavasana, Vajrasana, Dhanurasana, Chakrasana, Sarvaangasana, Halasana etc.

(f) **Unit 7. Obstacle Training(Contact Hrs. 05)**

(i) Obstacle training – Intro, Safety measures, Benefits.

(ii) Obstacle Course- Straight balance, Clear Jump, Gate Vault, Zig- Zag Balance, High Wall etc.



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SEMESTER VI COURSE MODULE : NATIONAL CADET CORPS VI

| <u>Course Title: National Cadet Corps VI</u> | | | |
|---|---|------------------------|-------------------------------|
| Course Code | BNCC06GE03 | Credits | 2(Thr)+ 1(Pr)=03 |
| L / T + P | 30 +30 | Course Duration | 1 Semester |
| Semester | VI (Even) | Contact Hours | 30(Thr)+30(Pr)=45Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, Seminar presentations by students, individual and group drills, group and individual field-based assignments, Educational Excursion | | |
| Assessment and Evaluation | As per the University norms i.e. 25% internal assessment and 75% End of term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (I) Theory

31. **Course Objectives.** Cadets will be able to: -
- Get acquainted about counselling process its need and importance.
 - Know about SSB procedure and different tasks and tests.
 - Know about the conduction during the interview.
 - Understand the security challenges & role of cadets in Border Areas.
 - Know about the modes of entry in Armed forces, CAPF & police.
 - Understand the life history & leadership qualities of great generals.
 - Learn about 1999 Kargil war.
 - Acquire the knowledge about various wars and their heroes.
 - Know about various components of communication process.




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32. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (a) Get motivated to join Armed forces, police & CAPF.
- (b) Write their CV effective and appealing.
- (c) Face SSB interview effectively in their future.
- (d) Understand individual responsibilities & role in meetings the security challenges on Border/Coastal areas.
- (e) Imbibe the feeling of patriotism.
- (f) Communicate more effectively.

33. **Course Content Part (I) Theory**

- (a) **Unit 1. Personality Development (Contact Hrs.3).**
 - (i) Career Counselling.
 - (ii) SSB Procedure.
 - (iii) Interview Skills.
- (b) **Unit 2. Border & Coastal Areas(Contact Hrs.2).** Security Challenges & Role of cadets in Border management.
- (c) **Unit 3. Armed Forces(Contact Hrs. 3).** Modes of Entry into Army, Police and CAPF.
- (d) **Military History(Contact Hrs. 19).**
 - (i) Biographies of Renowned Generals.
 - (ii) War Heroes : Param Veer Chakra Awardees.
 - (iii) Study of Battles of Kargil.
 - (iv) War Movies.
- (e) **Communication(Contact Hrs. 3).** Introduction to Communication & Latest Trends.



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Course Content Part (II) Practical

34. **Course Objectives.** Cadets will be able to: -
- (a) Understand that drill as the foundation for discipline and to command a group for common goal.
 - (b) Appreciate grace and dignity in the performance of ceremonial drill.
 - (c) Know about various knots and lashing used in soldiering.
 - (d) Acquire awareness about the basic weapon system in use in the Armed Forces.
35. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -
- (a) Perform foot drill and follow the different word of command.
 - (b) Aiming range and figure targets.
 - (c) Use the different knots and lashing in day-to-day life for different purposes.
 - (d) Develop the feeling of altruism.
36. **Course Content Part (II) Practical.**
- (a) **Unit 1. Drill (Contact Hrs. 03).**
 - (i) Ceremonial Drill.
 - (ii) Guard of Honour.
 - (b) **Unit 2. Weapon Training(WT) (Contact Hrs. 04).** Short Range firing.
 - (c) **Unit 3. Map Reading(MR) (Contact Hrs. 04).** Google maps and Applications.
 - (d) **Unit 4. Field Craft & Battle Craft(FCBC) (Contact Hrs. 03).** Knots, Lashing and Stretchers.
 - (e) **Unit 5. Social Service and Community Development(SSCD) (Contact Hrs. 05).** Cadets will participate in various activities throughout the semester e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc as per the requirement and similar announced days- National and State level.
 - (f) **Unit 6 Introduction of Infantry Weapons & Equipment(INF) (Contact Hrs.03).** Characteristics of 5.56MM INSAS Rifle, Ammunition, Fire Power, Stripping, Assembling & Cleaning Practice.
 - (g) **Unit 7. Communication (COM) (Contact Hrs. 03).**
 - (i) Basic Radio Telephony (RT) Procedure.
 - (ii) Introduction, Advantages, Disadvantages, Need for standard procedures.




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(iii) Types of Radio telephony communication.

(iv) Radio telephony procedure, Documentation.

NATIONAL CADET CORPS



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COURSE MODULE: NATIONAL CADET CORPS CAMP -I

| Course Title: National Cadet Corps Camp I | | | |
|--|---|------------------------|--------------------------------|
| Course Code | BNCCCAMP03GE05 | Credits | 2(Thr)+ 3(Pr)=05 |
| L /T + P | 30+90 | Course Duration | 10 Days (24 hours each) |
| Semester | III (Odd) | Contact Hours | 30(Thr)+90(Pr)=120Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, individual and group tasks, team work, field-based assignments, Physical Training, endurance building and skill development practices | | |
| Assessment and Evaluation | As per the University norms i.e. 25% internal assessment and 75% End of term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (I) Theory

37. **Course Objectives**. Cadets will be able to :-
- Acquire knowledge about the various aspects of personality development.
 - Understand the concept of leadership traits, moral values and character traits.
 - Develop awareness about the various types of natural disasters.
 - Develop sensitivity to the changing environment and understand the importance of conservation.
 - Understand the importance of hygiene and sanitation and common first aid procedures.
 - Acquire awareness about various types of weapon systems in the Armed Forces.



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38. **Expected Learning Outcomes**. After completing this course, the cadets will be able to: -

- (a) Acquire adequate skill sets to overcome their weakness and reshape their personality.
- (b) Imbibe good moral values and character traits in their daily life.
- (c) Become useful members of the society and form part of disaster response team, if need arises.
- (d) Respect and make efforts to conserve natural resources
- (e) Follow good personal hygiene practices and provide first aid in emergencies.
- (f) Be motivated to join the armed forces.

39. **NCC Camp-I : Course Content Part (I) Theory**

- (a) **Unit 1. Personality Development (PD) (Contact Hrs. 04)**. Introduction to Personality Development, Factors influencing/shaping personality, Time Management and Interview Skills.
- (b) **Unit 2. Leadership (LDR) (Contact Hrs. 04)**. Leadership Traits, Moral Values and Character Traits.
- (c) **Unit 3. Disaster Management (DM) (Contact Hrs. 04)**. Assistance during natural disasters, Do's and Don'ts for NCC Cadets performing Disaster Management Duties
- (d) **Unit 4. National Integration and Awareness (NIA)(Contact Hrs. 04)**. Water Conservation and Rain Harvesting, Waste Management and Energy Conservation
- (e) **Unit 5. Health and Hygiene (H&H)(Contact Hrs. 04)**. Hygiene and Sanitation, First Aid in Common Medical Emergencies.
- (f) **Unit 6. Infantry Weapons (IW) (Contact Hrs. 02)**. Characteristics of Company Support Weapons.
- (g) **Unit 7. Weapon Training (WT) (Contact Hrs. 04)**. Characteristics of Point 22 Rifle and its Ammunition, Range Procedure and Safety Precautions.
- (h) **Unit 8. Military History (MH) (Contact Hrs. 04)**. Guest lectures by War Veterans/decorated soldiers/veterans.
- (i) **Unit 9. Communication (COM) (Contact Hrs. 04)**. Basics of communication.




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NCC Camp-I : Course Content Part (II) Practical


40. **Course Objectives.** Cadets will be able to: -

- (a) Understand that drill is the foundation of discipline and command a group for a common goal.
- (b) Understand the importance of a weapon its detailed safety precautions necessary for prevention of accidents.
- (c) Develop awareness about different types of terrain and how it is used in Battle Craft.
- (d) Develop the concept of various markings on the map and how they are co-related to the ground features.
- (e) Acquire awareness about the various types of weapon systems in the Armed Forces.
- (f) Understand the concept and importance of social service.
- (g) Understand the various nuances of Personality Development.
- (h) Understand the concept and importance of Physical Training in everyone's life.
- (i) Acquire skill sets about various games and understand the importance of team work.
- (j) Develop awareness about different cultures and different modes of its projection in artistic forms.

41. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (a) Perform foot drill, arms drill, ceremonial drill and will be able to give out different words of command.
- (b) Fire a weapon effectively with fair degree of marksmanship.
- (c) Undertake point to point navigation and take part in route marches by day and night.
- (d) Use terrain effectively for concealment, camouflage, indicate landmarks and give field signals.
- (e) Be motivated to join the armed forces.
- (f) Acquire adequate skill sets to overcome their weakness and enhance their personality.
- (g) Gain adequate physical and mental endurance capabilities.
- (h) Play team games and be able to communicate and coordinate effectively in group events or situations.




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(i) Respect the diversity of Indian culture and develop pride by showcasing their own culture to others.

42. **NCC Camp-I : Course Content Part (II) Practical**

(a) **Unit 1. Drill (Drill)(Contact Hrs. 16).** Drill ki Aam Hidayaten aur Words of Command, Savdhan, Vishram, Aram Se aur Mudna, Khuli Line aur Nikat Line mein march, Salute Karna Parade Par, Visarjan aur Line Tod, Tej Chal, Tham aur Dhire Chal, Tham, Dahine, Baen, Aage aur Piche Kadam lena, Tejchaal se Mudna, Tejchaal se Salute karna, Tej kadambaal aur Tham, Tej Kadambaal se kadam badhana, Teenon Teen se ek file Banana aur ek file se Teenon Teen Banana, Rifle Ke Saath Saavdhan, Vishram aur Aaram se, Rifle ke saath Parade par aur saaj, Rifle Ke saath visarjan aur line tod, Bhumi Sashtra aur Uthao Sashtra, Bagal Sashtra aur Baaju Shastra.

(b) **Unit 2. Weapon Training (WT) (Contact Hrs. 14).** Stripping, Assembling, Cleaning of Point 22 rifle, Sight Setting and Sight Picture of Point 22 Rifle, Loading, Cocking and Unloading, Lying Position, Holding and Aiming of Point 22 rifle, Trigger Control and Firing of Shot, Theory of Group, Short-Range Aiming and Firing, Firing Practice I to VII.

(c) **Unit 3. Field Craft & Battle Craft (FC/BC) (Contact Hrs. 06).** Introduction of Field Craft & Battle craft, Judging Distance, Indication of Landmarks and Targets, Observation, Camouflage and Concealment, Field Signals, Section formations.

(d) **Unit 4. Map Reading (MR) (Contact Hrs. 12).** Introduction to Map and Conventional signs, Scale and Grid System, Topographical forms and technical terms, Relief, Contours and gradients, Cardinal points and types of North, Types of Bearing and use of Service Protector, Prismatic Compass and its use, setting of a map, Finding North and own Position, Map to Ground and Ground to map, Point to Point march, Route March – I, Route March -II.

(e) **Unit 5. Infantry Weapons (IW) (Contact Hrs. 01).** Characteristics of Battalion Support Weapons.

(f) **Unit 6. Social Service and Community Development (SSCD) (Contact Hrs. 04).** Basics of Social Service and its need, Rural Development Programme, Civic Responsibilities: Cadets will participate in various activities throughout the camp e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc., Road /Rail Travel Safety

(g) **Unit 7. Personality Development (PD) (Contact Hrs. 06).** Self-Awareness, Empathy, Critical and Creative Thinking, Decision making and problem Solving, Coping with Stress and Emotions, Time Management.

(h) **Unit 8. Obstacle Training (OT) (Contact Hrs. 02).** OT Practice – I:- Untimed, Cadets will be familiarized with all the obstacles in the Obstacle Course and briefed about the correct method to do them, OT Practice -II: Timed practice for all the cadets and record to be maintained.



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- (i) **Unit 9. Physical Training (PT) (Contact Hrs. 09).** Physical Training will be carried out on each day of the camp, except on last day, in morning hours. Training has to be progressive in degree of difficulty to improve individual stamina and endurance. Training to include warming up, running, exercises to strengthen upper body, lower body and core muscles. Two period each to be devoted to route march by day and night respectively and one period will be earmarked for trekking expedition as part of Adventure Activity.
- (j) **Unit 10. Games Training (G)(Contact Hrs. 09).** Games Training will be carried out on each day of the camp, except on last day, in evening hours. Training has to be progressive in degree of difficulty to improve individual skills, coordination, team work and desire to excel. Training to ensure that each and every boy and girl cadets participate in at least one game activity everyday.
- (k) **Unit 11. Cultural Activity (C)(Contact Hrs. 09).** Cultural Activity will be carried out on each day of the camp, except on last day, in evening hours. Cadets have to divided in Nine Groups consisting of a mix of boy and girl cadets and preferably belonging to the same geographical area. Each group has to present the unique culture, custom, tradition, folk lore, songs, drama, paintings and cuisine during one hour allotted. There will be a prize for the best group to encourage participation and to develop pride in their unique culture. This training activity should ensure that each and every boy and girl cadet participate in at least one game activity every-day.
- (l) **Unit 12. Spare (S)(Contact Hrs. 02).** Two periods in each camp will be earmarked as spare to cover disruptions in training activity due to weather or other administrative reasons.




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COURSE MODULE : NATIONAL CADET CORPS CAMP – II

| Course Title: National Cadet Corps Camp II | | | |
|---|---|------------------------|--------------------------------|
| Course Code | BNCCCAMP05GE05 | Credits | 2(Thr)+ 3(Pr)=05 |
| L /T + P | 30+90 | Course Duration | 10 Days (24 hours each) |
| Semester | V (Odd) | Contact Hours | 30(Thr)+90(Pr)=120Hours |
| Methods of Content Interaction | Lecture, Tutorials, Group discussion, Collaborative work, self-study, individual and group tasks, team work, field-based assignments, Physical Training, endurance building and skill development practices | | |
| Assessment and Evaluation | As per the University norms i.e. 25% internal assessment and 75% End of term exams , or 30% internal assessment and 70% end of term exams etc. | | |

Course Content Part (II) Theory

43. **Course Objectives.** Cadets will be able to: -

- (a) Acquire the concept self-awareness, emotional intelligence, critical and creative thinking, decision making and problem solving.
- (b) Learn about various indicators of good leadership and get an insight on principle of leadership and motivation.
- (c) Develop awareness about the various types of natural disasters and disaster management organization in our country.
- (d) Familiarize with natural resources, changing environment and understand the importance of conservation and waste management.
- (e) Value the importance of Physical and Mental health and understand how to deal with wounds of various types.
- (f) Acquire awareness about organization and role of an Infantry Battalion in the Armed Forces.




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44. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (a) Develop a sense of responsibility, smartness in appearance and improve self-confidence, inculcate importance of empathizing with others, improve their deep-thinking ability and apply ideas and be able to face problems in a constructive manner with solutions.
- (b) Imbibe good leadership traits and apply them in practical life and appreciate the visible outcome of leadership and motivation.
- (c) Appreciate role of the org during emergency and become useful members of disaster response team, if need arises.
- (d) Learn about the various natural resources, their utilization and practice method of conservation of these resources in daily life.
- (e) Appreciate value of physical and mental health in daily life and spread awareness about treatment and care of wounds in their society.
- (f) Be motivated to join the armed forces.

45. **NCC Camp-II : Course Content Part (I) Theory.**

- (a) **Unit 1. Personality Development (PD) (Contact Hrs. 04).** Self-Awareness, Emotional intelligence, Critical and Creative Thinking, Decision-Making and Problem Solving.
- (b) **Unit 2. Leadership (LDR) (Contact Hrs. 02).** Indicators of Good Leadership, Leadership and Motivation.
- (c) **Unit 3. Disaster Management (DM) (Contact Hrs. 02).** Disaster Management Organization NDMA and NDRF, Types of Disasters.
- (d) **Unit 4. Environmental Awareness and Conservation (EAC) (Contact Hrs. 02).** Natural Resources, Conservation and Management, Water Conservation, Waste Management, Energy Conservation.
- (e) **Unit 5. Health and Hygiene (H&H) (Contact Hrs. 02).** Physical and Mental Health, Treatment and Care of Wounds.
- (f) **Unit 6. Infantry Weapons (IW) (Contact Hrs. 01).** Organization of Infantry Battalion.
- (g) **Unit 7. Weapon Training (WT) (Contact Hrs. 02).** Characteristics of Point 22 Rifle and its Ammunition, Range Procedure and Safety Precautions.
- (h) **Unit 8. Military History (MH) (Contact Hrs. 04).** Guest lectures by War Veterans/decorated soldiers/veterans.
- (i) **Unit 9. Communication (COM) (Contact Hrs. 04).** Latest trends in communication.



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NCC Camp-II : Course Content Part (II) Practical


46. **Course Objectives.** Cadets will be able to: -

- (a) Inculcate spirit of discipline and follow command as a group for a common goal.
- (b) Fire a weapon with adequate safety precautions necessary for safe firing.
- (c) Understand the lay of the ground and use it skillfully towards own objective.
- (d) Understand and use the map, satellite imagery and GPS effectively.
- (e) Identify and be well versed with the primary weapon systems used in the Armed Forces.
- (f) Lead a life of selflessness and provide service towards society development and nation building.
- (g) Understand the importance of changing mindset, team work, social skills etiquettes and manners, interview skills and importance of effective communication in daily life.
- (h) Learn the importance of physical fitness and nuances of physical training.
- (i) Inculcate esprit-de-corps through team games.
- (j) Have knowledge about cultural diversity of India and learn ways and means to adopt them.

47. **Expected Learning Outcomes.** After completing this course, the cadets will be able to: -

- (a) Practice problem solving, critical thinking in real life situations.
- (b) Practice leadership of small teams and groups under challenging environment.
- (c) Develop a positive attitude, have manners and etiquettes in social life, develop a sense of cooperation for group or team work, participate in an interview with confidence and inculcate verbal and non-verbal communication skills.
- (d) Develop adequate physical and mental endurance capabilities.
- (e) Fire a weapon effectively with fair degree of marksmanship.
- (f) Undertake point to point navigation and take part in endurance marches by day and night.
- (g) Use terrain effectively for concealment, camouflage, indicate landmarks and give field signals.
- (h) Be motivated to join the Armed Forces.
- (i) Play team games and be able to communicate and coordinate effectively in group events or situations.




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- (j) Perform foot drill, arms drill, ceremonial drill and will be able to take part in ceremonial parade and events.
- (k) Respect the diversity of indian culture and develop pride by showcasing their own culture to others.

48. **NCC Camp-II : Course Content Part (II) Practical**

- (a) **Unit 1. Drill (Drill) (Contact Hrs. 16).** Tejchaal se Mudna, Tejchaal se Salute karna, Tej kadamtal aur Tham, Tej Kadamtal se kadam badhana, Teenon Teen se ek file Banana aur ek file se Teenon Teen Banana, Rifle Ke Saath Saavdhan, Aaram se, Rifle ke saath Parade par aur saaj, Rifle Ke saath visarjanaur line tod, Bhumi Sashtra aur Uthao Sashtra, Bagal Sashtra aur Baaju Shastra, Salami Sashtra, Squad Drill, Guard Mounting, Guard of Honour, Platoon / Company Drill, Word of Command and Instructional Practice.
- (b) **Unit 2. Weapon Training (WT) (Contact Hrs. 14).** Stripping, Assembling, Cleaning of Point 22 rifle, Sight Setting and Sight Picture of Point 22 Rifle, Loading, Cocking and Unloading, Lying Position, Holding and Aiming of Point 22 rifle, Trigger Control and Firing of Shot, Theory of Group, Short-Range Aiming and Firing, Musketry Training, Firing Practice I to VII.
- (c) **Unit 3. Field Craft & Battle Craft (FC/BC) (Contact Hrs. 06).** Observation, Camouflage and Concealment, Field Signals, Section formations, Fire Control Orders, Fire and Movement, Knots and Lashings.
- (d) **Unit 4. Map Reading (MR) (Contact Hrs. 12).** Introduction to Map and Conventional signs, Scale and Grid System, Topographical forms and technical terms, Relief, Contours and gradients, Cardinal points and types of North, Types of Bearing and use of Service Protector, Prismatic Compass and its use, setting of a map, Finding North and own Position, Map to Ground and Ground to map, Point to Point march, Endurance March – I (10 KM), Endurance March -II (20 KM).
- (e) **Unit 5. Infantry Weapons (IW) (Contact Hrs. 01).** Characteristics of Infantry Company support weapons and 5.56 MM INSAS Rifle.
- (f) **Unit 6. Social Service and Community Development (SSCD)(Contact Hrs. 04).** Contribution of Youth Towards Social Welfare: Cadets will participate in various activities throughout the camp e.g., Blood donation Camp, Swachhata Abhiyan, Constitution Day, Jan Jeevan Hariyali Abhiyan, Beti Bachao Beti Padhao etc., Social Evils: Female Feticide, Dowry, Child Abuse, Trafficking and Corruption, Drug Abuse and Drug Trafficking, Protection of Children and POCSO Act 2012.
- (g) **Unit 7. Personality Development (PD)(Contact Hrs. 06).** Change Your Mindset, Team Work and Team Building, Social Skills, Etiquettes and Manners, Interview Skills, Communication Skills–I, Communication Skills -II




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(h) **Unit 8. Obstacle Training (OT)(Contact Hrs. 02).** OT Practice – I: Untimed, Cadets will be familiarized with all the obstacles in the Obstacle Course and briefed about the correct method to do them, OT Practice -II: Timed practice for all the cadets and record to be maintained.

(i) **Unit 9. Physical Training (PT) (Contact Hrs. 09).** Physical Training will be carried out on each day of the camp, except on last day, in morning hours. Training has to be progressive in degree of difficulty to improve individual stamina and endurance. Training to include warming up, running, exercises to strengthen upper body, lower body and core muscles. Two period each to be devoted to route march by day and night respectively and one period will be earmarked for trekking expedition as part of Adventure Activity.

(j) **Unit 10. Games Training (G)(Contact Hrs. 09).** Physical Training will be carried out on each day of the camp, except on last day, in evening hours. Training has to be progressive in degree of difficulty to improve individual skills, coordination, team work and desire to excel. Training to ensure that each and every boy and girl cadets participate in at least one game activity everyday

(k) **Unit 11. Cultural Activity (C) (Contact Hrs. 09).** Cultural Activity will be carried out on each day of the camp, except on last day, in evening hours. Cadets have to divided in Nine Groups consisting of a mix of boy and girl cadets and preferably belonging to the same geographical area. Each group has to present the unique culture, custom, tradition, folk lore, songs, drama, paintings and cuisine during one hour allotted. There will be a prize for the best group to encourage participation and to develop pride in their unique culture. This training activity should ensure that each and every boy and girl cadets participate in at least one game activity every day (Contact Hrs. 09)

(l) **Unit 12. Spare (S) (Contact Hrs. 02).** Two periods in each camp will be earmarked as spare to cover disruptions in training activity due to weather or other administrative reasons.




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SECTION II : RULES AND REGULATIONS
GOVERNING NCC CREDIT COURSE UNDER CHOICE BASED CREDIT SYSTEM AS
GENERIC ELECTIVE FOR SENIOR DIVISION/WING

RULE 1 :Definitions of Key Terms

1.1 General Definitions

1.1.1 'Choice Based Credit System' (CBCS). The CBCS provides choice for the student to select courses from the prescribed courses (Elective or Soft – Skill courses). It provides a 'Cafeteria' approach in which the students can take courses of their choice, learn at their own pace, study additional courses and acquire more than the minimum required credits, and adopt an inter-disciplinary approach.

1.1.2 'Academic Year'. Two consecutive (one odd + one even) semesters shall constitute one academic year.

1.1.3 'Credit Course'. Course, usually referred to as paper having specific title and code number, is a component of a programme. It consists of a list of topics/concepts/theories/principles/activities/tasks etc. which a student has to learn during the programme of study. Each course has some credits according to the nature and load of content. Each course should define the learning objectives/learning outcomes. A course may be designed to be delivered through lectures/tutorials/laboratory work/field work/out reach activities/project work / vocational training / physical training /viva / seminars /term papers / assignments / presentations / self-study work etc., or a combination of some of these.

1.1.4 'Course Instructor/Teacher'. The course instructor generally will be a teaching faculty who has taken up the responsibility of teaching it and evaluating the performance of the students in that course. NCC course will be imparted by the ANO (Associate NCC Officer) and PI (Permanent Instructor) / Girl Cadet Instructor (GCI) staff together according to their area of specialization. Certain specific topics and training activity is imparted by Military Officers and Whole Time Lady (WTLO).

1.1.5 'Credit'. A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work per week. Thus, in each semester's NCC course, credits are assigned on the basis of the number of lecture/tutorial/field work/physical training/excursions and other forms of learning required for completing the contents in a 15-18 week schedule. 2 hours of laboratory work/field work is generally considered equivalent to 1 hour of lecture.

- i. 1 credit = 1 hour of instruction per week (1 credit course = 15 contact hours of instruction per semester)



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- ii. 4 credit = 4 hour of instruction per week (4 credit course = 60 contact hours of instruction per semester)
- iii. 1 credit = 2 hour of practical per week (1 credit course = 30 contact hours of instruction per semester)
- iv. 4 credit = 8 hour of practical per week (4 credit course = 120 contact hours of instruction per semester)

Number(s) of credit(s) assigned to a particular course are mentioned in the detailed syllabus of the courses.

1.1.6'Credit Point' It is the product of the grade point and the number of credits for a course.

1.1.7'Letter Grade' It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P, and F. A letter grade is assigned to a student on the basis of evaluation of her/his performance in a course on a ten-point scale.

1.1.8'Grade Point' It is a numerical weight allotted to each letter grade on a 10 -point scale.

| Letter Grade | Grade Point |
|--------------|-------------|
| O | 9-10 |
| A+ | 8-9 |
| A | 7-8 |
| B+ | 6-7 |
| B | 5-6 |
| C | 4-5 |
| P | 4 |
| F | 0 |
| Ab | 0 |

Note : University may use the above said criteria for providing the grades to the students or may adopt the same criteria which they are practicing for providing the letter grade and grade point for other subjects.

1.1.9'Programme' An educational programme leading to the award of degree, Diploma or Certificate course. NCC course shall be offered only at under graduate level programmes for any stream or type of programme for example – Nonprofessional courses BA, B.SC. B. Com etc. professional courses – B.A., LLB, B.A./B.Sc., B.Ed., BCA, BBA, B. Tech, MBBS etc.

1.1.10'Credit – Based Semester System (CBSS)' Under the CBSS, the requirement of awarding a degree or diploma or certificate is prescribed in terms of number of credits to be completed by the students.



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1.1.11 'Semester'. Each semester shall consist of 15 to 16 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from July to December and even semester from January to June. The Credit-based semester system provides flexibility in designing curriculum and assessing credits based on the course content and hrs of teaching.

1.1.12 'Semester Grade-Point Average (SGPA)'. Semester Grade Point Average or SGPA, is an average grade point earned by the student at the end of an academic session i.e. semester at college. The formula for calculation of SGPA is the sum of all the credit points awarded for the subjects divided by total credits allotted to that semester. It shall be expressed up to two decimal places.

1.1.13 'Cumulative Grade Point (CGPA)'. It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all the semesters. It shall be expressed up to two decimal places.

1.1.14 'Transcript/ Grade card or certificate'. Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade and / or marks secured) along with SGPA of semester. Overall Grade Certificate will be issued on completion of the course showing semester wise SGPA & CGPA.

1.1.15 'The University/ College/ Institution'. The University/ College/ Institution in present document means the any recognized central/ state/ Deemed university or institution meant for higher education.

1.1.16 'NCC Course'. In the present document 'NCC Course' means the course designed for imparting NCC curriculum in educational institutions as elaborated in this document under Choice Based Credit System as a General Elective Course for Senior Division/ Senior Wing.

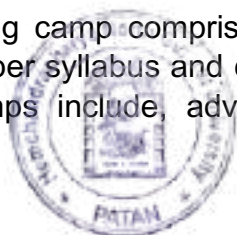
1.2 Definitions Specific to NCC

1.2.1 'Institutional Training'. Implies training conducted for NCC cadets as per Training Manuals and Cadet Hand Book issued by DG NCC, Ministry of Defence.

1.2.2 'Common Subjects'. Implies those subjects specifically taught in NCC curriculum which are common to Army, Navy and Air Force and general training that can be imparted by Associate NCC Officers or Military staff or a suitably qualified person.

1.2.3 'Specialised Subjects'. Implies subjects specifically taught in NCC curriculum by military instructors comprising specialised topics for Army, Navy and Air Force Cadets respectively.

1.2.4 'NCC Camps and Centralised Training Events'. Collective training events conducted usually for 10 days with large number of cadets living under field conditions in selected places away from home. The training camp comprises of focused physical and mental training routines of different types as per syllabus and curriculum. Some training like route marches may happen overnight. Camps include, adventure camps, national integration camps,



Republic Day Parade Training Camps, ThalSainik, VayuSainik and NauSainik camps and other outdoor training activities as described in DG NCC Training Manuals.

1.2.5 NCC 'B' and 'C' Certificate Examinations. These are defined in Special National Cadet Corps Order 2020 issued by DG NCC, Ministry of Defence.

1.2.6 'Training Faculty'. Persons suitably trained & responsible for imparting training of different types and nature to students.

1.2.7 'Military Officers'. They are regular commissioned officers of Indian Armed Forces who serve in the NCC and render command, administrative and instructional functions for NCC.

1.2.8 'Whole Time Lady Officers (WTLO)'. They are women officers commissioned directly into the NCC.

1.2.9 'Associate NCC Officer (ANO)'. ANO will be a university/ college/ school faculty who are qualified in the PRCN (Pre-commission Course of NCC) conducted by DGNCC and are commissioned as Associate Officers in NCC as defined in NCC Act 1948 and NCC Rules. They have the eligibility to impart certain component of NCC Course and undertake training of cadets.

1.2.10 'Permanent Instructor (PI)'. PI Staff are Junior Commissioned Officers (JCO) and Non-Commissioned Officers (NCO) on deputation from Armed Forces to NCC as governed by NCC Act 1948. Retired PI Staff may be hired by a college as a substitute for ANO with prior concurrence of DGNCC.

1.2.11 'Girl Cadet Instructors (GCI)'. GCI are lady instructors' equivalent to PI Staff for specifically imparting instructions to women NCC cadets of Senior Wing.

1.2.12 'NCC Organizational Structure'. NCC is an adjunct of Indian Armed Forces that operates under the ambit of the Ministry of Defence through the Defence Secretary with Raksha Mantri as the political head.

1.2.13 'DGNCC'. Directorate General of NCC renders the command and administrative function of NCC. The executive head of NCC is Director General of NCC who is a Lt Gen rank officer from the Army.

1.2.14 'State NCC Directorate'. State NCC Directorates are directorates subordinate to DG NCC and render command and administrative control to NCC at State level and is headed by an Additional or Deputy Director General

1.2.15 'NCC Group HQ'. NCC Group HQs are subordinate to State Directorates and render command and administrative control to NCC at district or cluster of districts in a state and is headed by a Group Commander.

1.2.16 'NCC Units'. NCC Units are subordinate to Group HQs at the lowest rung of the command and administrative control exercised by military officers and is headed by a Commanding Officer or Officer Commanding. The NCC Units directly engage



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with educational institutions and ANOs and are primarily responsible for training of NCC in institutions under their jurisdiction.

1.2.17 'NCC Division/ Wing'. NCC Division/Wing are minor units of senior division/wing of NCC comprising of 160 senior cadets allotted to educational institutions. It can be further subdivided into NCC platoons of 53 to 54 cadets.

1.2.18 'NCC Troop'. NCC Troop are minor units of junior division/wing of NCC comprising of 100 junior cadets allotted to educational institutions. It can be further subdivided into NCC half troops comprising of 50 junior cadets.

RULE 2 : Admission and Other Provisions

2.1 The NCC Course under the CBCS as 'General Elective' shall be of three years (Six Semester) duration which may be completed in maximum duration of four year (8 semesters).

2.2 Students may complete NCC course minimum in Six semesters and maximum in eight semesters. Cadets may complete their 'B' Certificate in four semesters minimum and maximum six semesters. Cadets already having 'B' certificate may complete their 'C' certificate in minimum two semesters and maximum four semesters, and they may join NCC course 5 in first semester of college.

2.3 The intake to the course shall be decided according to the seats allotted to University/ college/ institution by DG NCC according to the availability of required infrastructure, faculty and resources.

2.4 The admission to the NCC Course under the CBCS as a 'General Elective' shall be governed by the provisions as laid down by the NCC Act 1948/ SNCCO 2020/ contemporary SNCCO and Academic council of parallel body of university. These rules and regulations may be modified from time to time (if needed) by the Academic body of the university in consultation with DG NCC or Act/ Ordinances prepared by DG NCC.

2.5 Students will be enrolled as NCC cadet as per existing Acts & Rules.

2.6 At the time of reporting for admission, the candidates are required to present medical & physical fitness documents as well as the admission proof of the university and submit the self-attested copies of aforesaid documents.

2.7 The admission of any candidate is liable to be cancelled without giving any further notice forthwith or at any time during the period of the course, if it is detected that the candidate has/had produced fake/forged certificate (s)/ document(s), indulged in any act of misconduct/indiscipline and has/had concealed any other relevant information at the time of admission.

2.8 The admission of the candidate to the course shall be subject to such ordinance, rules and regulations as may be framed from time to time by the university in consultation with DG NCC and NCC act 1948.

2.9 DG NCC shall have jurisdiction in case of any dispute relating to the provisional admission in the course.



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RULE3 : For Eligibility, Medium of Instrs & Categories

3.1 Eligibility Conditions. Be governed by provisions of NCC Act and Rules and directions from DG NCC from time to time. These are readily available on DG NCC website www.nccindia.nic.in.

3.2 Standards for physical Fitness criteria for Male and Female Cadets/students shall be governed by provisions of NCC Act and Rules and policy documents released by DG NCC from time to time.

RULE4 : Medium of Instruction. English or Hindi. However, ANOs and training instructors are free to use vernacular language for helping students who are not fluent in Hindi or English.

RULE 5 : Course and Students. NCC course is unique, due to the nature of its military training content and component hence it is normally offered to students enrolled as NCC cadets only. This NCC Course is primarily designed for students enrolled as NCC cadets under provisions of NCC Act 1948. Institution allotted NCC will have the obligation to offer this course to all students from their institute enrolled as cadets as per vacancy allotted to the institution by DG NCC as also to those cadets enrolled under Open Quota seats.

RULES 6 :NCC Course for ‘Cadet’ Category

6.1. NCC Course for ‘Cadet’

(a) NCC course for Cadets comprises of total 24 credits (08 for theory, 06 for practical and 10 for camp component) over 6 semesters courses i.e., NCC course I to NCC course VI and NCC Camp I & NCC Camp II.

(b) Cadets will not only earn the academic credits but also be given ‘B’, and ‘C’ Certificates after passing the exam conducted by DG NCC.

(c) Students would be free to join NCC Course I or subsequent Courses in any semester, not necessarily Semester I or the designated Semester.

(d) A student can opt for only one of the six Courses per semester and that too sequentially implying NCC Course II cannot be joined before completing NCC Course I and so on.

(e) Under this category a fresh student/cadet will compulsorily have to opt for all six NCC Courses in minimum six Semesters. However, ‘B’ certificate holder may directly join NCC Course Number 5 in any semester. He will have to complete NCC Course Number 5 and NCC Course Number 6 for obtaining ‘C’ certificate and he will be awarded credit points only for NCC Course Number 5 and NCC Course Number 6.




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| NCC GENERAL ELECTIVE CREDIT COURSE DESIGN SUMMARY | | | | | |
|---|-------------------|-----------|-----------|-----------|---|
| Semester | Credits Allocated | | | Total | Remarks |
| | Theory | Practical | Camp | | |
| Semester - I | 1 | 1 | | 2 | |
| Semester - II | 1 | 1 | | 2 | |
| Semester - III | 1 | 1 | 5 | 7 | Credits of 1 st Camp merged with 3 rd Sem |
| Semester - IV | 2 | 1 | | 3 | |
| Semester - V | 1 | 1 | 5 | 7 | Credits of 2 nd Camp merged with 5 th Sem |
| Semester - VI | 2 | 1 | | 3 | |
| Total | 08 | 6 | 10 | 24 | Twenty-Four Credits |




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RULE 7 :Mobility& Credit Bank

7.1 The mobility shall be permissible from the regular mode programme to the regular mode programme of learning only and cannot be replaced by open/distance/online programme.

7.2 It shall be the responsibility of the student to assess the feasibility and practicality of vertical mobility (across the Universities), as it doesn't entitle a student to be exempted or relaxed from any of the requisites (sessional, attendance, assignments, End-semester examinations and programme duration etc.) for completing the course.

7.3 After completing one semester/ one year cadet/student may pursue NCC course from any other institution/ University/ College having NCC and carry credits in credit bank as per NEP 2020. The NCC students/ Cadets of some other university shall in any case be admitted only at the beginning of the session to the fulfilment of the other requirements of the NCC Course (attendance, Formative assessment, Field-work, practical etc).

7.4 A student of NCC course availing inter-university mobility shall continue to be a bonafide student of the university where he/she initially got admission and as per the university/ Institutional rules for the inter-university mobility.

7.5 In case of inter-university mobility of NCC cadet for NCC Course is also the subject to availability of NCC for the cadets in that particular university/ institution and it shall be interpreted as inter-battalion migration (means another regimental no. shall be allotted to the cadet).

RULE 8 :Examination & Promotion

8.1 The examination of all the NCC courses shall be internal in nature and generally consisting of continuous internal assessment and End of semester Examination. For the preparation of final grade in a particular course, the continuous internal assessment (Formative in nature) and the End Semester Examination (Summative in nature) shall have the weightage as decided for other courses by the university as per the University norms for e.g., 25% internal assessment and 75% End of term exams or 30% internal assessment and 70% End of term exams etc.

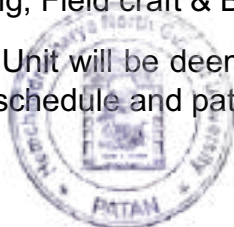
8.2 For assigning the Grades and credit points to NCC Course Universities/ Institutions are free to use the same criteria which are decided by their academic bodies for providing the grades and credit points to the other courses

RULE 9 :Continuous Internal Assessment

9.1 The Continuous Internal Assessment of the NCC Cadets' and NCC students' learning and performance shall be carried out by the ANOs and PI staff.

9.2 Continuous Internal Assessment will be 100% Practical that includes Drill Square test, Map Reading, Weapon Training, Field craft & Battle craft.

9.3 CO of nominated NCC Unit will be deemed as Head of the Department and shall be responsible for approving the schedule and pattern of the continuous internal examination.



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9.4 ANO of the nominated institute shall maintain all the records related to attendance, teaching and assessment in a systematic manner, including award of final grade.

9.5 In case a student fails to appear in any Continuous Internal Assessment, they will be given a chance to reappear in retest and in case he/she fails to obtain 'P' grade he/she will be made to repeat the exam by carrying it forward for semester retest .

RULE 10 :Re-appear in the End Semester Examination for Improvement of Grades

10.1. If a student wishes to improve her/his grade(s) in NCC course(s), she/he can re-appear in the End Semester Examination in the subsequent odd/even semester(s), whenever the examination of the particular course(s) is held, on payment of fees in addition to the prescribed semester fee within the maximum permissible duration for the programme of study of the student/cadet.

10.2. A student may improve her/his points/grade by reappearing in the End Semester Examination of a course as per the provisions of reappearing mentioned above. In such cases points obtained by the student in the Continuous Internal Assessment of the particular course shall be carried forward to the subsequent End Semester Examination of the course. However, in such case, the points/grades obtained on the basis of latest appeared End Semester Examination shall be considered for calculation of final CGPA of the programme.

10.3. The re-appear examination of a course for improvement of grade shall be based on the syllabi of the course in force at the time of initial registration to the course.

10.4. A student who has got the Migration/Transfer Certificate issued from the University shall not be allowed to re-appear in any examination for improvement of grade.

RULE 11 :Repeating Courses

11.1 A student having attendance shortage in any course may repeat the course by taking re-admission in that course in subsequent odd/even semester(s), whenever the course is being offered, within the maximum permissible duration of the programme.

11.2 If a student repeats a course, she/he has to fulfil all the desired requirements afresh including attendance, Continuous Internal Assessment and the End Semester Examination. In such case the course content shall be based on the syllabi of the course in force at the time of repetition of the course.

RULE 12 : Promotion Rules

12.1 A student shall be declared as 'promoted' to the next semester when she/he earns 'P' Grade or above in the last concluded semester examination, maintaining the spirit and pattern of semester system and covering the mandatory components, such as Continuous Internal Assessment and End-Semester Examination in the NCC Courses.

12.2 A student shall be 'Provisionally Promoted' to the next semester if she/he secures less than 'P' grade but he /she has to pass all the courses of NCC course within permissible duration.



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12.3 A cadet shall be eligible to attend the 'B' Certificate exam if he/she passed all the first four semester NCC course and completed one ATC/CATC. Similarly, cadet will be eligible to attend 'C' certificate examination if he/she has 'B' certificate and he /she has passed V, VI semester NCC course and attended one CATC/ATC after fourth semester and after having obtained 'B' certificate.

12.4 If a cadet/student is repeating a course in an academic session, whatever may be the reason, it shall not be counted in the total number of seats and shall not affect the fresh intake of cadets / student in that academic session.

RULE 13 :Computation of SGPA & CGPA

13. Computation of SGPA and CGPA. University may use their own criteria for giving the SGPA & CGPA which is prepared by the authorised academic body for the other courses.




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NATIONAL CADET CORPS



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BROAD COURSE DESIGN FOR NCC GENERAL ELECTIVE CREDIT COURSE

NCC GENERAL ELECTIVE CREDIT COURSE DESIGN SUMMARY

| Semester | Credits Allocated | | | Total | Remarks |
|----------------|-------------------|-----------|-----------|-----------|---|
| | Theory | Practical | Camp | | |
| Semester - I | 1 | 1 | | 2 | |
| Semester - II | 1 | 1 | | 2 | |
| Semester - III | 1 | 1 | 5 | 7 | Credits of 1 st Camp merged with 3 rd Sem |
| Semester - IV | 2 | 1 | | 3 | |
| Semester - V | 1 | 1 | 5 | 7 | Credits of 2 nd Camp merged with 5 th Sem |
| Semester - VI | 2 | 1 | | 3 | |
| Total | 08 | 6 | 10 | 24 | Twenty-Four Credits |



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INSTITUTIONAL TRAINING SYLLABUS

2.

| COMMON SUBJECTS | | | | |
|-----------------------------------|--|----------------------------------|--|-------|
| S no. | Subject | Periods (1 hour duration each) | | |
| | | Lectures/Tutorials | Practicals | Total |
| 1. | NCC General | 06 | - | 06 |
| 2. | National Integration | 04 | | 04 |
| 3. | Drill | - | 45 | 45 |
| 4. | Weapon Training | - | 25 | 25 |
| 5. | Personality Development | 25 | | 25 |
| 6. | Leadership | 12 | - | 12 |
| 7. | Disaster Management | 13 | | 13 |
| 8. | Social Service & Community Development | 08 | 39 | 47 |
| 9. | Health & Hygiene | - | 10 | 10 |
| 10. | Adventure | 01 | | 01 |
| 11. | Environmental awareness & conservation | 03 | | 03 |
| 12. | Obstacle Training | - | 09 | 09 |
| 13. | General Awareness | 04 | | 04 |
| 14. | Border & Coastal Areas | 06 | | 06 |
| | | 82 | 128 | 210 |
| SPECIALIZED SUBJECTS (ARMY) | | | | |
| 1. | Armed Forces | 09 | - | 09 |
| 2. | Map Reading | - | 24 | 24 |
| 3. | Communications | 03 | 03 | 06 |
| 4. | Infantry Weapons | 03 | 03 | 06 |
| 5. | Field Craft & Battle Craft | | 22 | 22 |
| 6. | Military History | 23 | - | 23 |
| | | 38 | 52 | 90 |
| TOTAL HOURS SPECIALISED SUBJECTS | | | | |
| GRAND TOTAL HOURS (TOTAL CREDITS) | | 120 (08 cr)* | 180 (6 cr)** | 300 |
| | | *15 HOUR THEORY = 1 CREDIT POINT | **30 HOURS PRACTICAL TRAINING = 1 CREDIT POINT | |




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SEMESTER WISE DISTRIBUTION OF NCC SYLLABUS FOR THEORY

89.

| S. NO. | SUBJECT | SEMESTER | | | | | | TOTAL |
|--------|--|----------|----|-----|----|----|----|-------|
| | | I | II | III | IV | V | VI | |
| 1 | NCC General | 6 | - | - | - | - | - | 6 |
| 2 | National Integration and Awareness | 4 | - | - | - | - | - | 4 |
| 3 | Personality Development | 2 | 5 | 5 | 4 | 6 | 3 | 25 |
| 4 | Leadership | - | 5 | 4 | 3 | - | - | 12 |
| 5 | Disaster Management | - | - | 3 | 10 | - | - | 13 |
| 6 | Social Service and Community Development | 3 | 5 | - | - | - | - | 8 |
| 7 | Adventure | - | - | 1 | - | - | - | 1 |
| 8 | Environmental awareness & conservation | - | - | - | 3 | - | - | 3 |
| 9 | General Awareness | - | - | - | 4 | - | - | 4 |
| 10 | Border & Coastal Areas | - | - | 2 | - | 2 | 2 | 6 |
| 11 | Armed Forces | - | - | - | 6 | - | 3 | 9 |
| 12 | Infantry Weapons | - | - | - | - | 3 | - | 3 |
| 13 | Communication | - | - | - | - | - | 3 | 3 |
| 14 | Military History | - | - | - | - | 4 | 19 | 23 |
| | Total Periods | 15 | 15 | 15 | 30 | 15 | 30 | 120 |
| | Total Credit Points | 1 | 1 | 1 | 2 | 1 | 2 | 08 |



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SEMESTER WISE DISTRIBUTION OF NCC SYLLABUS FOR PRACTICAL

| S. NO. | SUBJECT | SEMESTER | | | | | | TOTAL |
|--------|--|----------|----|-----|----|----|----|-------|
| | | I | II | III | IV | V | VI | |
| 1. | Drill | 12 | 12 | 8 | 7 | 3 | 3 | 45 |
| 2. | Field Craft & Battle Craft | 3 | 4 | 4 | 4 | 4 | 3 | 22 |
| 3 | Map Reading | 3 | 5 | 4 | 4 | 4 | 4 | 24 |
| 4 | Weapon Training | 5 | 4 | 4 | 4 | 4 | 4 | 25 |
| 5 | Communication | - | - | - | - | - | 3 | 03 |
| 6 | Infantry Weapons | - | - | - | - | - | 3 | 03 |
| 7 | Social Service and Community Development | 7 | 5 | 5 | 6 | 5 | 10 | 38 |
| 8 | Health & Hygiene | - | - | - | 5 | 5 | - | 10 |
| 9 | Obstacle Training | - | - | 5 | - | 5 | 0 | 10 |
| 10 | Total Periods | 30 | 30 | 30 | 30 | 30 | 30 | 180 |
| | Total Credit Points | 1 | 1 | 1 | 1 | 1 | 1 | 6 |



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NCC CAMP TRAINING SYLLABUS

98

| COMMON SUBJECTS | | | | |
|-----------------------------|--|-----------------|------------------|-------------------|
| S No. | Subjects | Periods | | Total |
| 1. | Physical Training | - | 18 | 18 |
| 2. | Drill | - | 32 | 32 |
| 3. | Weapon Training | 08 | 28 | 32 |
| 4. | National Integration and Awareness | 08 | - | 04 |
| 5. | Personality Development | 08 | 12 | 20 |
| 6. | Leadership | 08 | - | 04 |
| 7. | Disaster Management | 08 | - | 04 |
| 8. | Social Service and Community Development | - | 08 | 08 |
| 9. | Health & Hygiene | 08 | | 04 |
| 10. | Obstacle Training | - | 04 | 04 |
| 11. | Military History | 04 | - | - |
| 12. | Communication | 04 | - | - |
| 13. | Games | - | 18 | 18 |
| 14. | Culture | - | 18 | 18 |
| 15. | Spare | - | 04 | 04 |
| TOTAL | | 56 | 142 | 170 |
| SPECIALISED SUBJECTS | | | | |
| 1. | Map Reading | | | |
| 2. | Infantry Weapons | 04 | 24 | 24 |
| 3. | Field Craft & Battle Craft | | 02 | 04 |
| TOTAL | | 04 | 12 | 12 |
| | | 60(4 cr) | 180(6 cr) | 240(10 cr) |




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6.

TRAINING OBJECTIVES

1. **Institutional training Objectives.** This includes basic military training of the cadets as part of the curriculum with its long- standing effort to mould young volunteers into disciplined and responsible citizens of India. NCC course is aimed to achieve following learning objectives :-

- a) Develop character, camaraderie, discipline, secular outlook, the spirit of adventure, sportsman spirit and ideals of selfless service amongst cadets by working in teams, honing qualities such as self-discipline, self-confidence, self-reliance and dignity of labour in the cadets.
- b) To create interest in cadets by including and laying emphasis on those aspects of Institutional Training which attract young cadets into the NCC and provides them an element of thrill and excitement.
- c) To inculcate defence Services work ethos that is characterized by hard work, sincerity of purpose, honesty, ideal of selfless service, dignity of labour, secular outlook, comradeship, spirit of adventure and sportsmanship.
- d) To create a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the Nation regardless of which career they choose.
- e) To provide conducive environment to motivate young Indians to choose the Armed Forces as a career.

2. **Camp Training Objectives.** Focus is more on outdoor training and develop esprit di corps among the cadets. This includes :-

- a) Develop character, camaraderie, discipline, secular outlook, the spirit of adventure, sportsman spirit and ideals of selfless service amongst cadets by working in teams, honing qualities such as self-discipline, self-confidence, self-reliance and dignity of labour in the cadets.
- b) To inculcate defence Services work ethos that is characterized by hard work, sincerity of purpose, honesty, ideal of selfless service, dignity of labour, secular outlook, comradeship, spirit of adventure and sportsmanship.
- c) To create a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the Nation regardless of which career they choose.




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d) To provide cadets an opportunity to improve upon their mental and physical endurance and stamina by sustained, consistent and high pace of activity throughout the period they undergo in the camp.

e) To provide conducive environment to motivate young Indians to choose the Armed Forces as a career.

f) Learning Outcomes. NCC Camp Training is aimed to achieve following :-

i) After acquiring the basic awareness through theoretical training at their respective academic institutions, cadets are exposed to the much-awaited excitement of camp life, where they can apply their knowledge.

ii) Training schedule planned for the cadets ensure maximum benefits of regimented way of life of the Armed Forces, reaches maximum number of cadets.

iii) Main emphasis is on practical aspects of training like cleaning and maintaining their line area, organizing security in and around the camp, making part of the purchase committee, planning for messing, distribution of food, etc.

iv) They also develop limited ability to address real life problems by applying problem solving and critical thinking skills in addition to undertaking tasks as members or leaders of small teams and groups.



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**Diploma in
Fire and Safety**

PROGRAM CODE : HNGU 3068




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Course Introduction

Diploma in Fire and Safety Management course focuses on training students in the prevention of fire and safety methods. This course teaches students how to follow and maintain safety standards. Students who have completed 10+2 in any subjects are eligible for this course. People who are currently working in fire and safety industries they can also go for this course, this course helps them to get promotion as a fire and safety officer, health and safety manager, in charge manager. This course offers a study about how to evacuate people from emergency situations and control the situation. The course duration is one year. Many colleges in India are offering this course.

Diploma in Fire and Safety Management course fees:

The course fees for Diploma in fire and Safety Management are may vary from college to college depending on facilities they are offering like experienced faculty, Laboratories, Infrastructure, and Practical workshops. On average, the course fees will be INR 32000 per annum.

Diploma in Fire and Safety Management Course at a Glance

| | |
|-----------------------|--|
| Degree | : Diploma |
| Full Form | : Diploma in Fire and Safety Management |
| Duration | : 1 Year |
| Minimum Eligibility | : 10+2 (in any stream) from the recognized board or equivalent |
| Average Fees | : INR 16000 per Term |
| Medium of Instruction | : English or Gujarati |
| Examination Pattern | : Annual basis with one internal exam at the end of each term |
| Passing standard | : 40% marks in aggregate |

Employment Opportunity :

Fireman, Fire Officer, Safety In charge, Fire Safety Trainer, Health and Safety Instructor, Safety Instructor, etc.

Placement Opportunities :

Oil and Natural Gas Corporation (ONGC), Central Industrial Security Force(CNSC), City Municipal Corporations, Health and Safety Department, etc.




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| | | Credits | Marks | | |
|--------|--|-----------|------------|------------|------------|
| | | | Internal | External | Total |
| DFS001 | Fundamentals of fire engineering | 4 | 30 | 70 | 100 |
| DFS002 | Advances in fire control technology | 4 | 30 | 70 | 100 |
| DFS003 | Industrial and environmental safety | 4 | 30 | 70 | 100 |
| DFS004 | Risk management and hazard control | 4 | 30 | 70 | 100 |
| DFS005 | Fire risks and societal safety | 4 | 30 | 70 | 100 |
| DFS006 | Important legislations on fire and safety | 4 | 30 | 70 | 100 |
| DFS007 | Practical, training and Viva-voce | 8 | | 100 | 100 |
| DFS008 | Short term project work/ Industrial training | 8 | | 150 | 150 |
| | Total | 40 | 180 | 620 | 800 |




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Detailed Syllabus

DFS001: Fundamentals of Fire Engineering

| | | |
|---------------|--|-----------|
| Unit 1 | History of fire services | 25 |
| 1.1 | History of fire services in India | |
| 1.2 | Basic physics, Units, Guidelines for writing the units, Force, resultant force | |
| 1.3 | Laws of force and motion, Mass and weight, work, power, energy, Law of conservation of energy, Mechanics – rest and motion, | |
| 1.4 | Distance and displacement, Speed and velocity, Acceleration, retardation, Newton laws of motion, Machines and engines, Efficiency, Friction | |
| Unit 2 | Chemistry and physics of fire | 25 |
| 2.1 | Basic Chemistry and physics of fire, Atomic structure, Elements, compounds | |
| 2.2 | Pure substance and mixture, Physical and chemical changes, Condition for the changes, Energy changes | |
| 2.3 | Effects of heat on matter, Combustion, Temperature, Specific heat capacity, Catalyst, Neutralization, Sublimation, Heat of decomposing, Chemical reaction, Exothermic and endothermic reaction, Transmission of heat | |
| 2.4 | Flash and fire point, Ignition temperature, Flammables and combustible chemicals, Spontaneous combustion, Triangle of combustion, Tetrahedron fire, Spread of fire | |
| Unit 3 | Classification and nature of fire | 25 |
| 3.1 | Classification of fire, General Causes of fire, | |
| 3.2 | Detection of fire, Extinguishing methods, First aid fire-fighting equipment | |
| 3.3 | Fire bucket, Fire beater, hose reel hose, Portable extinguisher, | |
| 3.4 | Depends on weight and operating method, depends on content, depends on position of nozzle, Construction, Operation, Maintenance, Refilling | |
| Unit 4 | Fixed fire-fighting installations | 25 |
| 4.1 | Fixed fire-fighting installations using water, | |
| 4.2 | Hydrant or fire water system, Classification of hydrant system, Sprinkling system, | |
| 4.3 | Major foam pourer system, Steam drenching system, Emulsification | |
| 4.4 | Special fires and fire-fighting, Air craft fire, Ships fire | |




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DFS 002: Advances in fire-control technology

| | | |
|---------------|---|-----------|
| Unit 1 | Hose | 25 |
| 1.1 | Types of hose, Characteristic, Frictional lose, Material used, | |
| 1.2 | Causes and prevention of mildew, Causes and prevention of shock, Causes and prevention of rubber acid, | |
| 1.3 | Care and maintenance, Types of hose fittings, Component parts of inter locking couplings, Suction coupling wrenches, Branches, nozzles and branch holders, Foam making branches | |
| 1.4 | Nozzles, Collecting head and suction hose fittings, Breechings, Adapters, Maintenance of hose fittings | |
| Unit 2 | Rope, lines, knots and ladder | 25 |
| 2.1 | Rope, Lines, knots and ladders, | |
| 2.2 | Introduction, Manufacturing materials, Types of ropes and size, Cordage, | |
| 2.3 | Causes of deterioration of ropes and lines, Different type of knots, type of lines, Purpose of knots | |
| 2.4 | Ladders, Introduction, Hook ladder, escape ladder, turn table and extension ladder, Hook ladder belts | |
| Unit 3 | SCBA and foam making equipment | 25 |
| 3.1 | SCBA: Introduction, Physiology of respiration, Effects of respiration, | |
| 3.2 | Essential fetchers of BA set , Description and technical details, Care and maintenance of BA sets, Advantage and disadvantage of various BA set, | |
| 3.3 | Foam & foam making equipment, Definition, Different type of foam concentrate, Storage, Characteristics, | |
| 3.4 | Foam branch and its type, Mechanical foam generator | |
| Unit 4 | Pumps, primers, water relay and fire alarms | 25 |
| 4.1 | Introduction, definition, Deferent types of pumps and primers, | |
| 4.2 | Working principle of various pumps and primers, Maintenance and trouble shooting, testing, advantage and disadvantages | |
| 4.3 | Water relay system, Open circuit system, Closed circuit system, Different type of tenders and Fire alarm system, Operation and maintenance | |
| 4.4 | Water, foam, CO ₂ , DCP and emergency tenders | |




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DFS003: Industrial and Environmental safety

| | | |
|---------------|---|-----------|
| Unit 1 | Occupation safety and management | 25 |
| 1.1 | Occupational Safety, Health and Environmental Safety. | |
| 1.2 | Principles & practices, Role of Management in Industrial Safety | |
| 1.3 | Planning for Safety, purpose, nature, scope and procedure | |
| 1.4 | Safety professional and their role in Safety, Health and Management (SHE) | |
| Unit 2 | Safety in industries | 25 |
| 2.1 | OSD norms for industrial safety | |
| 2.2 | Safety in chemical and petroleum industries | |
| 2.3 | Safety in construction industries | |
| 2.4 | Safety in mining industries | |
| Unit 3 | Industrial health and hygiene | 25 |
| 3.1 | Industrial health hazard | |
| 3.2 | Routes of entry and toxic effects on human body | |
| 3.3 | Physiology of work, Ergonomics, | |
| 3.4 | Statutory provisions for occupational health and hygiene | |
| Unit 4 | Environment and Management | 25 |
| 4.1 | Fundamentals of environment, climatology | |
| 4.2 | Environmental issues | |
| 4.3 | Environment monitoring and audits | |
| 4.4 | Industry and environment management | |




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DFS004: Risk management and hazard control

| | | |
|---------------|--|-----------|
| Unit 1 | Introduction to Risk and Hazard | 25 |
| 1.1 | Definition and Glossary of Terms | |
| 1.2 | Risk Management, Hazards Control System | |
| 1.3 | Job Hazard analysis, Hazop, Fault tree Analysis | |
| 1.4 | System safety, Failure mode and effect Analysis | |
| Unit 2 | Physical and chemical properties of hazardous materials | 25 |
| 2.1 | Introduction of Major industrial hazards | |
| 2.2 | Types and consequences of major industrial hazard, Effects on human body | |
| 2.3 | Precautions while firefighting, Stages of combustion, Hazards of combustion | |
| 2.4 | Stability and inflammability, BLEVE, Fire extinguishment | |
| Unit 3 | Flammable Solids, Liquids and Gas | 25 |
| 3.1 | Petrochemicals and other hydrocarbons | |
| 3.2 | Tank fire – storage tank, trucks, service stations, High pressure pipe lines | |
| 3.3 | Pressurized and liquefied gases, Natural gas, Petroleum gases | |
| 3.4 | Refrigerants etc., Acetylene, Metals, Non metals | |
| Unit 4 | Other hazardous properties | 25 |
| 4.1 | Harmful contamination of air and water, Toxicity, Corrosiveness | |
| 4.2 | Radioactive hazards, Special precaution for handling, Emergency preparedness | |
| 4.3 | Pesticides, Explosion, Deflagration and detonation of gas, Dust explosion | |
| 4.4 | Confined and unconfined vapor cloud explosion | |




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DFS005: Fire risks and societal safety

| | | |
|---------------|--|-----------|
| Unit 1 | | 25 |
| 1.1 | Recognition of possible fire sources and emergency procedures in the event of a fire, | |
| 1.2 | In-depth study of fire investigation and the construction techniques for eliminating fires, | |
| 1.3 | History of fires, types of detecting devices and extinguishing agents and systems, construction techniques, and fire investigation, | |
| 1.4 | National Fire Protection Association and Occupational Safety and Health Administration standards | |
| Unit 2 | | 25 |
| 2.1 | Devising procedures in the event of fire, | |
| 2.2 | How people perceive and react to fire danger, | |
| 2.3 | The measures needed to overcome behavioural problems and to ensure the safe evacuation of people in the event of fire, | |
| 2.4 | Assisting disabled people to escape | |
| Unit 3 | | 25 |
| 3.1 | Safety goals and objectives, | |
| 3.2 | Monitoring safety progress, Identifying hazards and risks, Safety and financial benefits | |
| 3.3 | Safety and the balanced scorecard, Setting targets and ensuring commitment, | |
| 3.4 | Policies and procedures, Safety values and principles, Developing safe work systems | |
| Unit 4 | | 25 |
| 4.1 | Allocating responsibility and authority, | |
| 4.2 | Rehabilitation after an incident, Workplace inspections, | |
| 4.3 | Measuring and reporting, Developing and effective safety culture, Building an incident free workplace, Removing obstacles to safety, Safety and accountability | |
| 4.4 | Developing safety habits in the workplace, Fire Protection and Analysis | |




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DFS006: Important legislations on fire and safety

| | | |
|---------------|--|-----------|
| Unit 1 | Background and scope | 25 |
| 1.1 | ILO Convention and Recommendation concerning Occupational Health & Safety. | |
| 1.2 | Overview of Indian legislation pertaining to SHE | |
| 1.3 | Relevant Conventions and Recommendation of ILO in the furtherance of Safety, Health and Environment (SHE) | |
| 1.4 | SHE a human right issue. Trade Policy affecting OHS | |
| Unit 2 | Important safety related legislations in India | 25 |
| 2.1 | The Factories Act, 1948 (Amended) and Rules: Provisions under the Act and | |
| 2.2 | Rules made there-under with Amendments Case Laws under the Factories Act. | |
| 2.3 | Social Security – Legislations: Workmen’s Compensation Act and Rules, ESI Act and Rules. | |
| 2.4 | Contract Labour (Abolition and Regulation) Act, Public Liability Insurance Act, Social Accountability 8000 SA-8000 | |
| Unit 3 | Industry and fire related rules and acts | 25 |
| 3.1 | Indian Boilers Act, 1923 with allied Regulations, 1961, Indian Electricity Act, 2003 and Rules, | |
| 3.2 | Indian Explosives Act, 1984 and Rules. Petroleum Act and Rules. Gas Cylinders Rules. | |
| 3.3 | Static and Mobile (Unfired) Pressure Vessel Rules, 1981 as amended in 2000. | |
| 3.4 | The Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996; The Building and other Construction Worker’s Welfare Cess Act, 1996 Cess Rules, 1998 | |
| Unit 4 | Environment and pollution related acts and rules | 25 |
| 4.1 | Environment Protection Act 1986 (Amended) and Rules. | |
| 4.2 | MSIHC Rules. Noise Pollution Act, 1998, Bio-Medical Waste. | |
| 4.3 | Hazardous Waste Management Rules. | |
| 4.4 | Chemical accident (Emergency preparedness, planning and response) Rule 1986 | |




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DFS007: Training, Practical and Viva-voce

| | | |
|---|---|----|
| 1 | Mock-drills and training on safety | 25 |
| 2 | Training on fire-fighting through operation of various fire-fighting instrument | 25 |
| 3 | Industrial safety equipment (PPEs) | 10 |
| 4 | Environmental and meteorological instrument and their use | 10 |
| 5 | Demonstration of occupational health monitoring instruments | 10 |
| 6 | Practical and training record | 05 |
| 7 | Viva voce | 15 |




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DFS008: Short term project work/ Industrial training

| | | |
|---|---|-----|
| 1 | Project work for at least six weeks Or Training at any industry or fire station | 100 |
| 2 | Detailed project report | |
| 3 | Presentation | 20 |
| 4 | Viva –voce | 30 |

Internal Examinations should contain

Internal Test : 20

Attendance : 05

Assignments : 05




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Regulations and Syllabus For the
Diploma in Health and Sanitary Inspector (DHSI)
(Effective from June 2021).

PROGRAM CODE : HNGU 3069




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HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

DIPLOMA IN HEALTH AND SNITARY INSPECTOR (DHSI) PROGRAMME

(TO BE EFFECTIVE FROM JUNE -2021)

Programme Objective:

The objective of the course is to impart the classroom teaching with the practical training the candidate aspiring to join health and sanitary department of Municipal Bodies, Local Bodies, District Councils, railways, Five star hotels, Airport or any other similar services as Sanitary Inspector, Health Assistant, Disinfecting Inspector, Slaughter House Inspector, Mosquito Inspector, etc.

Programme Learning Outcomes:


The programme on Diploma in Health and Sanitary Inspector is designed to develop the following learning out comes in the aspirants:

- √ The candidates will be acquainted with the skill of food safety and ability to manage food safety at the hotels and hospital pantry.
- √ To develop the skill related to disposal of various wastes like; solid, liquid and biomedical to protect the environment.
- √ To develop the skill related to sterilization and disinfection of various articles.
- √ Practice food safety, supervise and apply it to establishments as well as community.
- √ Learning of survey in housing colonies to assess sanitary standards and prescribe corrective measures.
- √ Understanding of record register and ensuring implementation of Sanitation policy of the institution/ community as per the Government norms and guidelines.

Diploma in Health and Sanitary Inspector at a Glance

| | |
|-----------------------|--|
| Degree/Diploma | : Diploma Course (One year full-time) |
| Full Form | : Diploma in Health and Sanitary Inspector (DHSI) |
| Duration | : 1- Year |
| Tenure/Term | : June to November and December to May. |
| Minimum Eligibility | : 10+2 (in any stream) from the recognized board or equivalent |
| Tuition Fees | : As specified by the university by time to time. |
| Medium of Instruction | : English or Gujarati |
| Examination Pattern | : Annual basis internal and university/external examinations |
| Passing standard | : 40% marks in aggregate. |

Diploma in Health and Sanitary Inspector (DHSI) Regulations and Syllabus.


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**REGULATIONS FOR THE
DIPLOMA IN HEALTH AND SANITARY INSPECTOR (DHSI)
PROGRAMME**

(TO BE EFFECTIVE FROM JUNE -2021)

R.DHSI-1:(Eligibility for the Admission:

Candidates who has passed 12TH Standard (10+2 or Equivalent) in any stream is eligible to secure admission in the Diploma in Health and Sanitary Inspector on merit basis.

R.DHSI-2:(Duration of the Course):

The Duration of Diploma in Health and Sanitary Inspector (DHSI) course will be one year full-time course. The examination for the Diploma in Health and Sanitary Inspector will be conducted at the end of the year. Each term of the year will comprise of 14 TO 16 working weeks.

R.DHSI-3: (Programme of study)

A student shall follow the prescribed courses and course credit as listed in Annexure- I. The detailed syllabi for these courses are given in Annexure-II.

R.DHSI-4: (Examination)

The objective of evaluation in the Diploma in Health and Sanitary Inspector Programme is not only to measure the performance of student but also to motivate them for better performance. Students are to be evaluated based on Internal and External Examinations. The internal examination will carry 30% weightage, while external examination will carry 70% weightage.

R.DHSI-5: (Examination Evaluation)

The External/University will be conducted by university at the end of the year. The internal examinations will be conducted by the concerned department/college as a part of continues evaluation shall comprise of two tests each of 10%, 5% evaluation will be based on assignments/presentation/subject specific project report and 5% evaluation will based on attendance. The external examinations will be conducted by the university at the end of each semester. The detailed breakup of the evaluation mentioned below has to be followed while evaluating the candidates;

| Internal Evaluation | Marks (Wt.) | External Evaluation | Marks (Wt.) |
|-----------------------------------|-----------------------|----------------------------|-----------------------|
| Test-1 | 10-Marks (10%) | University Examinations | 70-Marks (70%) |
| Test-2 | 10-Marks (10%) | | |
| Assignment/Projects/Presentations | 05-Marks (05%) | | |
| Attendance | 05-Marks (05%) | | |
| Total | 30-Marks (30%) | Total | 70-Marks (70%) |



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R.DHSI-6: (Project/Dissertation Evaluation)

The project/Dissertation work will be evaluated by the internal and external experts under the chairmanship and supervision of chairman of Board of the study (BOS). There will also be a viva-voce examination on the Project/Dissertation work of the students by a committee comprising internal and external experts. The project/dissertation work will be evaluated in following pattern.

| | Weightage | Marks |
|---|------------------|--------------|
| 1. Dissertation/Project Report Evaluation | 70% | 70-Marks |
| 2. Viva-Voce (Presentation) | 30% | 30-Marks |

R.DHSI-7 :(Passing Standard)

The candidate has to secure 40% marks in internal examination in each subject and 40% marks in university examinations in each subject.

R.DHSI-9: (Award of the degree)

Diploma in Health and Sanitary Inspector (DHSI) will be awarded only after successful completion of the all courses at the end of the year.

R.DHSI-10: (Attendance)

Candidates shall be required to attend at least 75% of the total class room sessions separately under each of the courses offered to them during the semester. In case a candidate fails to meet the minimum requirement, he/she will have to repeat the respective semester.

R.DHSI-11: Medium of Instructions

The medium of instructions for the Diploma in Health and Sanitary Inspector shall be English or Gujarat both.

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ANNEXURE: I**PROGRAMME OF STUDIES LEADING TO THE
DIPLOMA IN HEALTH AND SANITARY INSPECTOR (DHSI)**

| Course Code: DHSI | | | Course Credit:40 | | | | |
|--------------------------------|---------------------|---|-------------------------|-------------------------|----------------------------|----------------------------|------------------|
| One Year Diploma Course | | | | | | | |
| Sr. No. | Subject Code | Name of the Subject/Course | Theory Credit | Practical Credit | Internal Evaluation | External Evaluation | |
| | | | | | | Theory | Practical |
| 01 | DHSI:101 | Introduction to Sanitary Health Inspector Programme (Foundation Course) | 04 | --- | 30-Marks | 70-Marks | ---- |
| 02 | DHSI:102 | Demography, Epidemiology and Health Education | 04 | 02 | 30-Marks | 50-Marks | 20-Marks |
| 03 | DHSI:103 | Liquid, Solid and Bio-Medical Waste Management | 04 | 02 | 30-Marks | 50-Marks | 20-Marks |
| 04 | DHSI:104 | Food & Nutrition | 04 | --- | 30-Marks | 70-Marks | --- |
| 05 | DHSI:105 | Environmental and Water Sanitation | 04 | 02 | 30-Marks | 50-Marks | 20-Marks |
| 06 | DHSI:106 | Public Health Acts. | 04 | --- | 30-Marks | 70-Marks | ---- |
| 07 | DHSI:107 | Infection Control | 04 | 02 | 30-Marks | 50-Marks | 20-Marks |
| 08 | DHSI:108 | Project Work | -- | 04 | --- | | 100- Marks |
| Total Credit | | | 28 | 12 | | | |



ANNEXURE: II
DETAILED SYLLABI OF STUDIES LEADING TO THE
DIPLOMA IN HEALTH AND SANITARY INSPECTOR (DHSI)

| | |
|----------------|--|
| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:101 |
| Course Name | Introduction to Sanitary Health Inspector Programme (Foundation Course) |
| Course Credit | 04 |
| Effective From | JUNE-2021 |

Course Objective:

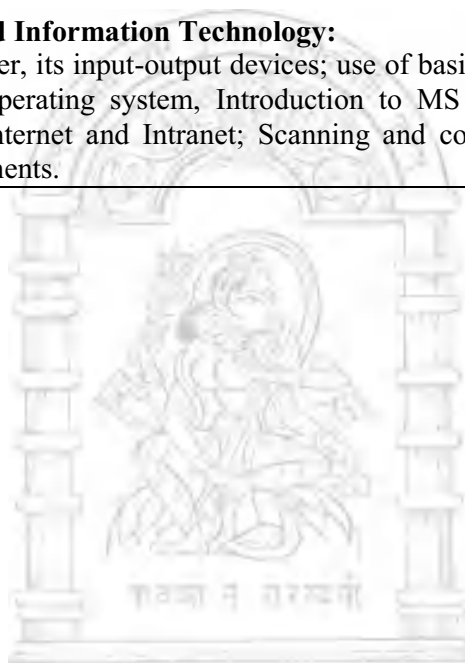
The objectives of this foundation course to develop the deep understanding about sanitary health inspector programme, role and duties of sanitary health inspector and various skills required for the job.

Learning Outcomes:

- a. Understanding the healthcare scenario in India
- b. Understanding the duties and responsibilities of sanitary health inspector.
- c. Develop understanding of general medical terminology.
- d. Develop anthropometric skill for measurement and record keeping
- e. Understanding the emergency care, importance of first aid, triage and disaster preparedness.
- f. Adhere to legislation, ethics, values and guidelines relevant to one's role and filed practice.
- g. Have a basic working knowledge and develop communication skills.

| Unit No. | Content | Weightage |
|----------|--|-----------|
| 1. | Introduction to healthcare and hospitals: Healthcare delivery in India: Primary, Secondary and Tertiary care; community participation in healthcare delivery system; Issues of healthcare delivery India; Basic medical technology; National Health Mission (NHM) | 20% |
| 2 | Basic Understanding of Sanitary Health Inspector: Duties and responsibilities of Sanitary health inspector; Importance of Sanitation, Health and Hygiene; Sanitary scope in Municipal Corporation, Trade fairs, public health sanitation, water bodies, slums, vulnerable pockets, restaurants, hotel etc.; Ethics in healthcare- Privacy, Confidentiality, Consent, Medico legal aspects; professionalism and values. | 20% |
| 3 | Basics of Emergency Care and Life Support Skills: Basic emergency care- First aid and Triage; Vital signs; Identifying signs and taking measure for choking and Heimlich Manoeuvre, bleeding including nose bleeds, minor burns, hypothermia, asthma attack, bites and stings, fainting and sprain; Ventilation including use of bag-valve-masks (BMVs) ; One and two-rescuer CPR; Using an AED (Automated external defibrillator); Managing emergency care including moving patients- log transfer; Disaster preparedness and management. | 20% |

| | | |
|---|---|-----|
| 4 | <p>Anthropometric Measurement: Points for consideration before measuring Weight, Height and other parameters; Process of checking each equipment; Recording measurements; Process of measuring weight; importance of weight measurement- weight for age and weight for height; Do's and Don'ts while measuring; steps for measuring height using height measuring scale and inch tape; Measuring Circumference- arms and waist.</p> | 20% |
| 5 | <p>Communication Skills: Basics of reading and writings skills, business communication like letters and emails, barriers of communication, barriers of communication, body language, postures and gestures; Listening and speaking skills; communicating patients with impaired hearing/visions/ speech/memory; Recognizing changes in patient behaviour and reporting to medical officer; Interpersonal skills and working with others.</p> <p>Computer and Information Technology: Use of computer, its input-output devices; use of basic software like MS Office, Operating system, Introduction to MS word-Excel – PowerPoint ,Internet and Intranet; Scanning and copying medical records/ documents.</p> | 20% |



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|----------------|--|
| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:102 |
| Course Name | Demography, Epidemiology and Health Education |
| Course Credit | 04 + 02 |
| Effective From | JUNE-2021 |

Course Objective:

The objective of this course is to develop the understanding about basic demography and vital statistics and the principles of health education.

Learning Outcomes:

- Understanding the process of registration, reporting and documentation for implementation of different act within the community.
- Understand the basic demography and vital statistics.
- Understanding the concept of health education and its importance.
- Understanding the concept of health statistics, tools to analyse health statistics and interpretation of health statistics.

| Unit No. | Content | Weightage |
|----------|---|-----------|
| 1. | Demography: Concept of demography; Demography and vital statistics; Vital event of demography and its impact on demography; Significance and recording of vital statistics; Demography and Health survey: Science of demography, Demographic cycle; Population trends and demographic indicators: Methods of demographic data collection; sources of data, population census; population composition; world population growth, growth of Indian population, morbidity, mortality, ageing, migration/urbanization | 25% |
| 2 | Epidemiology Principles of epidemiology; Natural history of disease; Epidemiology of communicable and non-communicable diseases; Disease transmission; host defence immunization agent; cold chain; immunization; disease monitoring and surveillance; Sources of epidemiological data; concepts of screening, criteria for screening, sensitivity and specificity; disease surveillance; techniques for randomization, adverse events, investigation of an epidemic and role of a healthcare facility in its control; Epidemiological tools for monitoring and evaluation of health programmes | 25% |
| 3 | Basics of Health statistics: Statistics and its application relating to public health; mortality and morbidity statistics; Classification of data, Source of data, data organization Method of scaling - nominal, ordinal, ratio and interval scale, building composite scales, measuring reliability and validity of scales; Measurement of central tendency, measurement of dispersion – Range, Mean deviation & Standard deviation; Data tabulation and charts; | 25% |
| 4 | Health Education and Communication: Health education opportunities and approaches for health inspector in his work place; planning health education activities; education related to environmental sanitation programme; use of audio-visual aids and media; utilizing community resources for health education. | 25% |

| | | |
|---|---|--|
| | Health education through Primary Health Centre; Health education through personal contract, group meeting and indirect approaches; Perception of various deceases and ailments such as HIV AIDS, Leprosy and ways to reduce/deal with stigma. | |
| <p>Practical Wok:</p> <p>Define various sections of a survey and make a short survey form for registration of births and deaths in a community and document it.</p> <p>Prepare a chart for educating community regarding HIV/AIDS/spread of malaria/dengue/save water/maintain hygiene and sanitation etc.</p> <p>Designing of posters on roles and responsibilities of a health inspector.</p> <p>Preparation of diet menu for hypertensive, diabetic nephritis & heart patients.</p> <p>Images of patients suffering from diseases.</p> <p>Preparing of video on Malnutrition Education/Balanced Diet/Healthy foods/Deceases occurs due to various deficiencies.</p> | | |



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| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:103 |
| Course Name | Liquid, Solid and Bio-Medical Waste Management |
| Course Credit | 04 + 02 |
| Effective From | JUNE-2021 |

Course Objective:

The objective of this course is to create the deep understanding about the various types of wastes like; solid, liquid and bio-medical wastes and the techniques for screening and disposal of these wastes.

Learning Outcomes:

- Understanding the procedure, policies and protocols for collection methods of different types of wastes.
- Learning of appropriate health and safety measures, standard precautions for infection control and use of personal protective equipment relevant to the type of wastes.
- Understanding on segregation of waste materials from work areas in line with current legislation and prevailing practices.
- Learning of techniques for effective transportation of various waste materials.
- Understanding the record keeping of waste materials.

| Unit No. | Content | Weightage |
|----------|--|-----------|
| 1. | Bio-medical Waste Management: Definition and description of Medical Waste, Sources of Bio-medical Waste; Waste Minimization; Classification of hazardous medical waste; Characterization of health-care waste; Legislative, Regulatory and Policy aspects of Health-care waste; Waste minimization, Recycling symbols for plastics, Recycling and recovery, Environmental management systems, Minimum approach to waste minimization; Sorting Principles, Handling of bags, Hazardous waste handling rules.; Various methods, Precautions during collection, Storage & Transportation of Hospital Waste.; Treatment and disposal methods, Incineration, Chemical disinfection, Needle extraction or destruction, Encapsulation; Personal protective equipment, Personal hygiene, Emergency measures, Training. | 20% |
| 2 | Solid Waste Disposal: Source, generation, storage, collection and disposal methods of solid waste; Classification of solid waste in community; Polluting effects of different types of solid waste; System of collection of solid waste from the houses & streets; Sanitary transportation of solid waste; Sanitary process of disposal of solid waste such as composting, sanitary land filling, incineration etc. | 20% |
| 3 | Liquid Waste/ Sewage Disposal: Definition of liquid waste and its sources; Various methods for liquid waste disposal; Definition and types of sewage system; Sewage disposal by biogas plant; Pollution of water due to sewage; Health hazards related to accumulation of liquid waste or sanitary drainage; Sewers and its types; Methods of laying sewers; Sewer appurtenances; Traps introductions; Types of traps; Plumbing tools and operations; Pollution of water sources from sewerage and its disinfection; Sewage farming. | 20% |

| | | |
|---|--|-----|
| 4 | Night Soil Disposal: Numerous impact of night soil on the environmental factors; Faecal borne disease due to unsanitary disposal of night soil ; Sewage in liquid waste containing human excreta; Different types of latrines in use principal of construction of sanitary latrines and their use especially berg hole, dug well, RCA and septic tank latrine. | 20% |
| 5 | Burial and Cremation Concept; Disposal of dead; Types of disposal methods; Methods of preservation of dead; Commonly and less commonly used methods for disposal of dead; Basic requirements for burial and cremation grounds; Health hazards associated with unsanitary disposal of Dead bodies. | 20% |

Practical Work:

- Demonstrate and describe appropriate procedures, policies and protocols for the method of collection and containment level according to the waste type.
- Identify and demonstrate methods of segregating the waste material in coloured bins.
- Demonstrate how will you report and deal with spillages and contamination in accordance with current legislation and procedures.
- Visit for an inspection of flushing tank, soil plant, traps, man holes, inspection chambers and maintenance of gully trap.
- Visit to burial or funeral ground for sanitation, proper process of disposal of dead body and maintenance of records as per the legal provision.




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|----------------|---|
| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:104 |
| Course Name | Food and Nutrition |
| Course Credit | 04 |
| Effective From | JUNE-2021 |

Course Objective:

The objective of this course is to create understanding on nutritional values of food and awareness about balanced diet.

Learning Outcomes:

- Understanding the importance of food and nutrients for the health.
- Learning of balanced diet, weight reduced diet and low fat diet.
- Understanding the concept Malnutrition and preventive measures to reduce malnutrition.
- Leaning of food preservation techniques for various types of food.
- Calculate and suggest the calorie and nutrition requirements as per the specific requirements of the person.

| Unit No. | Content | Weightage |
|----------|--|-----------|
| 1. | Science of Food: Food (definition) & function of food & introduction of nutrition & nutrients; Classification of food, their sources, nutrient diets proteins, fat, vitamins & minerals – sources, function, deficiency excess & daily requirement; | 20% |
| 2 | Balanced Diet: Definition & importance; Factors to be considered on planning meals; Nutrient requirement of different age group; Therapeutic Diet: Introduction for balanced diet, weight reducing diet- low fat diet, bland diet, cirrhosis of liver, renal stone. | 20% |
| 3 | Nutrition Education: Malnutrition- causes prevention, low birth weight (LBW), causes of LBW, prevention of LBW, special care to be given to malnourished Children; Tabular differentiation of types of malnutrition; Importance of health education to overcome the problem of malnutrition; | 20% |
| 4 | Family Examination: Medical examination of family members-weight-height-height and circumferences of the head- skin folds (in case of children)- Blood test for haemoglobin- Diet survey- weight of food before cooking and after cooking. | 20% |
| 5 | Food Preservation: Definition & methods; household & industrial method of preservation, self-line; Pasteurization: methods, types & importance; Refrigeration: Prevents spoilage; Food Borne Diseases – Sources, symptoms and methods of prevention and control. | 20% |



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|----------------|---|
| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:105 |
| Course Name | Environmental and Water Sanitation |
| Course Credit | 04 + 02 = 06 |
| Effective From | JUNE-2021 |

Course Objective:

The objective of this course is to create understanding on water sanitation, soil sanitation, sanitary measures, concept of healthy homes and sanitary measures for the public places.

Learning Outcomes:

- Understanding the concept of soil sanitation and general principles of health housing.
- Learning of water testing methods, chlorination and measures for safe drinking water.
- Understanding the sanitary measures to be undertaken in festivals, fairs and during natural calamities.
- Understanding of occupational health measures and the role of employer to protect the health of workers.
- Understanding the concept of soil testing, chemical parameters of water testing like; PH, Turbidity, Chlorine, Hardness, TDS, Acidity, Alkalinity etc.

| Unit No. | Content | Weightage |
|----------|--|-----------|
| 1. | Soil sanitation: Introduction and importance of soil; Classification of soil; Classification from the view point of importance in public health; Reason of excessive moisture in the soil; Reclamation of land; Soil health; Soil bacteria and Parasites; study on insecticides, pesticides and disinfection; Various types of spraying equipment. | 20% |
| 2 | Housing, infrastructure and water supply General principle of healthy housing; Home Sanitation; Food hygiene at home; Specification for healthy housing; Construction of latrines and recommended financial assistance as per the Government norms; Maintenance of public and community water supply and ensure proper disinfection; Prepare of a sanitary well and tube well; Water supply and storage system at the community and domestic; Water testing labs; Pot method of chlorination. Water sampling for regular bacteriological and chemical analysis; Inspection of public and private well and/ or other water sources; Inspection of sanitation in hospital and health facilities. | 20% |
| 3 | Sanitation Measures in Fairs, Festivals and Natural calamities Sanitation Management at fairs and festival. Sanitary problems associated with human gatherings and temporary settlements; Alternate emergency sanitary provisions to prevent sanitation crisis for food, housing, water supply, lighting, disposal of community waste and prevention of outbreak of epidemics. | 20% |
| 4 | Occupational health Introduction; Occupational environment measures; Occupational diseases : importance of Safety and health at work place; State the role of employer, trade union and employees for health and safety program; Measures for health protection workers; Prevention of occupational diseases; Provision- benefit to employees; Occupational health in India. | 20% |

| | | |
|--|---|-----|
| 5 | <p>Air Concepts and importance of adequate ventilation; Types of ventilation- Natural ventilation-Mechanical ventilation; Indicators of air pollution; Process air purification and disinfection; Greenhouse effect ; Thermal comfort; Air temperature humidity; Radiation; Evaporation and their measurements.</p> <p>Control of Biological Environment Study on insecticides, pesticides and disinfections; Sterilization & disinfections of different articles; Various spraying equipment; Uses of rodenticides & larvaecidals; Vector control.</p> | 20% |
| <p>Practical Work:</p> <p>a. Identify soil sample equipment. b. Inspection and maintenance of sewage treatment plant. c. Measurement of noise level. d. Prepare charts or posters of global warming. e. Perform the practical for physical and chemical parameters of given water sample in testing labs. - PH - Turbidity - Chlorine - Hardness - TDS - Acidity - Alkalinity etc. f. Make a chart for impact of hard water on human health and other areas such as- on Plants, on industrial equipments.</p> | | |



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| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:106 |
| Course Name | Public Health Acts. |
| Course Credit | 04 |
| Effective From | JUNE-2021 |

Course Objective:

- To create the deep understanding on prevailing public health acts.
- To equant the students with legal previsions and penalties under each public health act.
- To create the understanding on rules and regulations of municipalities and local bodies and rules related to bio-medical wastes.

Learning Outcomes:

At the conclusion of course, the student will be able to;

- Describe and appreciate the value of understanding the history and evolution of health care ethics.
- Demonstrate the understanding of the various philosophical foundations for health care ethics.
- Discuss the application of legal and ethical concepts and principals in his/her capacity and responsibility as a sanitary health inspector.
- Understand the laws applicable to protect the public health and legal provisions under the acts.
- Understand the supplementary provisions and rules of local bodies.

| Unit No. | Content | Weightage |
|----------|--|-----------|
| 1. | Public Health Acts and Role of Sanitary Health Inspector: Definition, introduction and importance of act; Familiarise with Vocabulary and terminology of different acts; Documentation process for implementation of different acts; Introduction to Public health ethics; Moral norms; Screening and Surveillance in public health ethical issues. | 20% |
| 2 | Indian Epidemic Disease Act: Legal provisions of Indian Epidemic Decease Act; Power to take special measures and prescribe regulations as to dangerous epidemic disease; Powers of Central Government; Penalty; Protection to persons acting under Act. | 20% |
| 3 | Air and Water Pollution Control Act: The central and state boards for prevention and control of water pollution; Functions of Central Board, Functions of State Board, Powers to give directions Prevention and control of water pollution; Penalties and Procedure under act. Prevention of Food adulteration Act: The Central Committee for Food Standards; Appointment of Secretary and other staff; Central Food Laboratory; Prohibition of Import of certain articles of food; Application of law relating to sea customs and powers of Customs Officers; Powers of Food Inspectors; Procedure to be followed by food Inspectors; Penalties under the act. | 20% |

| | | |
|---|---|-----|
| 4 | <p>Birth and Death Registration Act: Registration of births and deaths; Maintenance of records and statistics; Special provision as to registration of births and deaths of citizens outside India; Power of registrar to obtain information regarding birth or death; Powers to give directions; Penalties.</p> <p>M. T. P. Act: Legal Provisions of the act; When pregnancies may be terminated by registered medical practitioners; Place where pregnancy may be terminated; Power to make rules; Power to make regulations; Protection of action taken in good faith.</p> | 20% |
| 5 | Suppression of Immoral Traffic Act (SITA), Municipal and Local Body Acts related to Housing Sanitation Act; Factory Act and ESI Acts; Legislation related to Tobacco and Drug Control; The Environment (Protection) Act; Biomedical Waste (Management & Handling) Rules;. | 20% |



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|----------------|---|
| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:107 |
| Course Name | Infection Control |
| Course Credit | 04 + 02 |
| Effective From | JUNE-2021 |

Course Objective:

- To create the understanding on communicable and Non-communicable deceases.
- To understand the personal hygiene techniques.
- To understand the standard precautions for the infection control.
- To develop the practical knowledge about use of personal protective equipments and use of other protective equipments.

Learning Outcomes:

At the conclusion of course, the student will be able to;

- Understand all procedures required for infection control
- Follow high level of personal hygiene.
- Follow all standard precautions and infection control procedures.
- Identify deviation from normal health.
- Understand hospital borne infections and practices to curb them.
- Understand different types of spillages and their management

| Unit No. | Content | Weightage |
|----------|---|-----------|
| 1. | Infection prevention and control: Evidence-based infection control principles and practices [such as sterilization, disinfection, effective hand hygiene and use of Personal protective equipment (PPE)]; Prevention & control of common healthcare associated infections; Components of an effective infection control program' Guidelines (NABH and JCI) for Hospital Infection Control. | 20% |
| 2 | Personal Hygiene: a. Factors influencing health & hygiene b. Health habits & practice, customs affecting personal hygiene c. Maintenance of normal circulation, respiration, digestion, etc. d. Skin care cleanliness e. Oral hygiene and dental care f. Care of hands, washing, importance of exercises and food values g. Care of the body-habits clothing h. Menstrual hygiene i. Care of special sensory organs j. Factors influencing human behaviour k. Change of behavioural pattern in different age groups l. Interpersonal relations and defence mechanism | 20% |
| 3 | Communicable Diseases: Introduction; Transmission of disease- By air, By contact, By insects and other diseases; General measures for prevention & control of communicable diseases; Role of Health Worker: Explain | 20% |

| | | |
|---|--|------------|
| | <p>Communicable diseases like Swine Flu, T.B., AIDS, Diphtheria, Polio, measles, diarrhoea etc.</p> <p>Non-Communicable Diseases Introduction; Incidence and prevalence; Diagnosis & prevention; Explain in detail diseases like cancer, hypertension, cardiac Disease, Diabetes etc.</p> <p>Immunity and immunisation: Importance of immunity and immunisation; Types, purpose and effect of immunisation; National immunisation schedule; Measles, typhoid, Covid-19 vaccines and other pentavalent vaccine.</p> | |
| 4 | <p>Disinfection & Sterilization Need of disinfection and sterilisation; Importance of disinfection and sterilisation in hospitals; Introduction and uses of various disinfection agents like Halogen, KMnO₂ solution, solid and liquid agents; Effective disinfectants like formaldehyde, sulphur, chlorine gases etc.; Use of UV radiation and ozone as disinfectant; Solid chemical agent; Bleaching – Bleaching powder, Lime etc.</p> | 20% |
| 5 | <p>Universal/ Standard Precautions</p> <ol style="list-style-type: none"> Hand hygiene Use of personal protective equipment (e.g., gloves, gowns, masks) Safe injection practices Safe handling of potentially contaminated equipment or surfaces in the patient environment Respiratory hygiene/cough etiquette. | 20% |
| <p>Practical Work:</p> <ul style="list-style-type: none"> - Demonstrate the use of Personal Protective Equipment (PPE). - Conduct a programme on personal hygiene in different area and document it. - Videos on disinfection and sterilisation techniques. - Various chemicals uses with safety for disinfection through videos. - Prepare a report on general survey of health care in different area. - Prepare a report on disinfection of hospital wards, operation Theatres, Labour rooms. - Prepare a banner for immunization. | | |




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| Programme Name | Diploma In Health and Sanitary Inspector (DHSA) |
| Course No. | DHSI:108 |
| Course Name | Project Report/Dissertation |
| Course Credit | 04 |
| Effective From | JUNE-2021 |

Course Objective:

- To create the understanding on practical knowledge of health survey.
- To understand the working of sewage treatment plant.
- To have a practical knowledge about safety practices and infection control practices at healthcare.
- To develop the practical knowledge about sanitation standards of rural and urban area.

Learning Outcomes:

At the conclusion of course, the student will be able to;

- a. Understand the practical aspects of family health survey.
- b. Understand the workings of sewage treatment plants.
- c. Practical knowledge on safety measures for healthcare and infection control techniques in various hospitals of rural and urban areas.
- d. Practical knowledge of sanitation practices prevailing at rural and urban area.

The student should prepare a detailed dissertation/ project report based on filed visit of following areas;

- Do the family health survey of 50-Houses in urban area and 50-houses of rural area and prepare the project report based on survey.
- Visit the One sewage treatment plant, One Solid Waste disposal plant and prepare the report on functioning of sewage treatment plant.
- Visit one Primary Health Centre (PHC), One Community Health Centre (CHC), one urban hospital to study the infection control practices and safety arrangements in hospital wards, operation theatre and labour rooms.
- Visit at least two gram panchayat and one Nagarpalika to study the sanitation standards of rural and urban area.



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Syllabus of Elective Generic

B.A. Sem-3

| | | | |
|---|------------------------|---|----------------------------|
| Programme Code : B.A. | | Course Title: Shrimad Bhagvad Gita, "શ્રીમદ્ ભગવદ્ ગીતા : | |
| Course Type : Elective Generic | Course Code : EG-03 | Credit Structure : 02 | No of Hrs per Week : 02 |
| Examination Marking Scheme : External only - 50 Marks | | | |
| Scheme of examination : As per BOS Guideline and HNGU rules applicable to faculty of Science | | | |

Course Objective:

- To provide awareness and knowledge about Vedas and Shrimad Bhagvad Geeta.
- To introduce students to background of Mahabharata and Role of Shri Krishna in Mahabharata.
- To discuss the importance of Arjunvishadyog.
- To draw attention of students, how to handle stress management in life.
- To aware about karmyog in life management.

UNIT I Introduction of Shrimad Bhagavad Geeta and ArjunvishadYog

- Background of Mahabharat and Veda Vyas -as a Composer of Mahabharat (Maharishi Krishna Dwaipayana)
 - Fundamentals of Veda-Upanishads and relation with Shrimad Bhagavad Geeta
 - Background, Status and Form of Shrimad Bhagvad Gita in Mahabharat.
 - Relevance and Necessity of Shrimad Bhagvad Gita's Teaching
 - Ethics, Philosophy and psychology of Shrimad Bhagavad Geeta
 - Role of Shri Krishna in Mahabharata
 - Shrikrishna - A Great Diplomat - Farsighted (Ran nitikar)
 - Kurukshetra Conflict and Reason
-
- ❖ મહાભારત મહાકાવ્યની પૃષ્ઠભૂમિ અને તેના રચયિતા મહર્ષિ વેદવ્યાસનો પરિચય
 - ❖ વેદ, ઉપનિષદના મૂળભૂત ખ્યાલ અને શ્રીમદ ભગવદ્ ગીતા સાથે સંબંધ
 - ❖ શ્રીમદ ભગવદ્ ગીતાની પૃષ્ઠભૂમિ અને સ્વરૂપ
 - ❖ શ્રીમદ ભગવદ્ ગીતાની પ્રાસંગિકતા અને તેના અભ્યાસની જરૂરિયાત
 - ❖ શ્રીમદ ભગવદ્ ગીતાનું નીતિશાસ્ત્ર, દર્શનશાસ્ત્ર અને મનોવિજ્ઞાન
 - ❖ મહાભારતમાં ભગવાન શ્રીકૃષ્ણની ભૂમિકા
 - ❖ ભગવાન શ્રીકૃષ્ણ- પખર રણનિર્ણય-મુક્તદેહકાર, વ્યવસ્થાપનકાર તરીકે ઓળખાય છે.
 - ❖ કુરુક્ષેત્ર રણભૂમિનો સંઘર્ષ અને કારણો

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FACULTY OF MANAGEMENT

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|------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| Programme | Bachelor of Business Administration | Semester | III |
| Effective from Academic Year | 2021-22 | Effective for the batch Admitted in | July 2021 |
| Subject code | BBA301 | Subject Name | Integrated Personality Development |

Objectives:

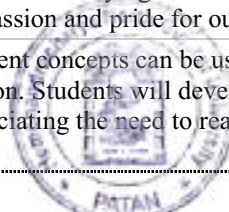
- To provide students with a holistic education – focused on increasing their intelligence quotient, physical quotient, emotional quotient and spiritual quotient.
- To provide students with hard and soft skills, making them more marketable when entering the workforce.
- To educate students on their social responsibilities as citizens of India
- To provide students with a value-based education which will enable them to be successful in their family, professional, and social relationships.
- To teach self-analysis and self-improvement exercises.


Learning Outcome:

Students will get encouraged to implement these values in their life and become a responsible citizen of India.

Theory syllabus

| Lecture No. | Module -Lecture | Lecture Description | Hours |
|-------------|---|--|-------|
| Induction | The Need for Values | Students will learn about the need for values as part of their holistic development to become successful in their many roles - as ambitious students, reliable employees, caring family members, and considerate citizens. | 2 |
| 1 | Remaking Yourself Restructuring Yourself | Students learn how self-improvement enables them to secure a bright future for themselves. They will learn 6 powerful thought-processes that can develop their intellectual, physical, emotional, and spiritual quotients. | 2 |
| 2 | Remaking Yourself - Power of Habit | Students will undergo a study of how habits work, the habits of successful professionals, and the practical techniques that can be used to develop good habits in their life. | 2 |
| 3 | Learning from Legends- Tendulkar & Tata | Students will learn from the inspirational lives of India's two legends, Sachin Tendulkar and Ratan Tata. They will implement these lessons through relatable case studies. | 2 |
| 4 | From House to Home- Listening & Understanding | Active listening is an essential part of academic progress and communications. Students will learn to listen with their eyes, ears, mind, and heart. | 2 |
| 5 | Facing Failures- Welcoming Challenges | This lecture enables students to revisit the way in which they approach challenges. Through the study of successful figures such as Disney, Lincoln and Bachchan, students will learn to face difficulties through a positive perspective. | 2 |
| 6 | Facing Failures- Significance of Failures | Failure is a student's daily source of fear, negativity, and depression. Students will be given the constructive skills to understand failure as formative learning experiences. | 2 |
| 7 | My India My Pride- Glorious Past - Part 1 | India's ancient Rishis, scholars, and intellectuals have made tremendous contributions to the world, they developed an advanced, sophisticated culture and civilization which began thousands of years ago. Students will learn the importance of studying India's glorious past so that they could develop a strong passion and pride for our nation. | 2 |
| 8 | My India My Pride- Glorious Past - Part 2 | Our ancient concepts can be used to seek revolutionary ideas and to generate inspiration. Students will develop a deeper interest in India's Glorious Past by appreciating the need to read about it, research it, write about it, and share it. | 2 |




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| 9 | Learning from Legends- A.P.J. Abdul Kalam | Dr Kalam's inspirational life displayed legendary qualities which apply to students (1) Dare to Dream (2) Work Hard (3) Get Good Guidance (4) Humility (5) Use Your Talents for the Benefit of Others | 2 |
| 10 | Soft Skills- Networking & Leadership | Students are taught the means of building a professional network and developing a leadership attitude. | 2 |
| 11 | Soft Skills- Project Management | Students will learn the secrets of project management through the Akshardham case study. They will then practice these skills through an activity relevant to student life. | 2 |
| 12 | Remaking Yourself- Handling Social Media | Students will learn how social media can become addictive and they will imbibe simple methods to take back control. | 2 |
| 13 | Facing Failures- Power of Faith | Students will learn about the power and necessity of faith in our daily lives. | 2 |
| 14 | From House to Home- Bonding the Family | Students will understand the importance of strong family relationships. They will learn how to overcome the generation gap and connect with their family more. | 2 |
| 15 | Selfless Service- Seva | Students will learn that performing seva is beneficial to one's health, wellbeing, and happiness. It also benefits and inspires others. | 2 |
| 16 | Remaking Yourself- Begin with the End in Mind | Students will learn to visualize their future goals and will structure their lives through smart goals to give themselves direction and ultimately take them to where they want to go. | 2 |
| 17 | Remaking Yourself- Being Addiction-Free | Students will explore the detrimental effects of addictions on one's health, personal life, and family life. They will learn how to take control of their life by becoming addiction free. | 2 |
| 18 | Selfless Service- Case Study: Disaster Relief Work | Students will apply previous lessons of Seva, to analyze the case study of the Bhuj earthquake relief work. | 2 |
| 19 | Soft Skills- Teamwork & Harmony | Students will learn the six steps of teamwork and harmony that are essential for students' professional and daily life. | 2 |
| 20 | My India My Pride- Present Scenario | To implement the transformation of India from a developing country into a developed country it is necessary to have a value-based citizen. Students will see how the transformation to a greater India relies on the vision and efforts of themselves as a youth. | 2 |
| 21 | Learning from Legends- Leading Without Leading | Students will explore a new approach to leadership, through humility. | 2 |
| 22 | My India My Pride- An Ideal Citizen - 1 | Students will learn that to become value-based citizens, they must first develop good values in their lives. They start by exploring the values of responsibility and integrity. | 2 |
| 23 | My India My Pride- An Ideal Citizen - 2 | Students will learn that by developing the values of loyalty, sincerity, and punctuality; they become indispensable and can leave a strong impression. They will start developing these values by trying to keep perfection in every small task and by looking at the bigger picture. | 2 |



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| 24 | Facing Failures Timeless Wisdom for Daily Life | Students will learn the role wisdom plays in finding long-term stability. They will use ancient wisdom to solve their modern-day challenges. | 2 |
| 25 | From House to Home- Forgive & Forget | Students will understand the importance and benefits that forgiveness plays in their personal and professional life. They will learn to apply this knowledge in realistic situations. | 2 |
| 26 | Remaking Yourself- Stress Management | Students will learn to cope with current and future causes of stress. | 2 |
| 27 | Remaking Yourself- Better Health Better Future | A healthy body prevents disease and stress; increases positivity, productivity, and brainpower. Students will learn to maintain good health through regular exercise, healthy eating habits, and regular and sufficient sleep. | 2 |
| 28 | Learning from Legends - Words of Wisdom | A panel of learned and experienced mentors will personally answer practical questions that students face in their daily life. | 2 |
| 29 | Soft Skills – Financial Planning | Students will develop a variety of practical financial skills that prepare them to become financially stable throughout their future careers. | 2 |
| 30 | Remaking Yourself Impact of Company | Students will understand that the type of company that we keep, has a crucial role in determining who we are and who we will become. They will develop the ability to create a positive environment around them. | 2 |
| Concluding | Life After IPDC | This concluding lecture encourages students to keep practising these priceless lessons and prepares them for the next steps in their lives. | 2 |

COURSE MATERIAL / MAIN COURSE WORKBOOK -

* There will be two workbooks for studying all subjects.

1. IPDC Workbook-1

2. IPDC Workbook-2

IPDC REFERENCES –

These are the reference material for the IPDC lectures. This is not compulsory reading for the students as the essential information is contained in the workbooks.

| Module No. | Module | References |
|------------|-----------------------|--|
| 1 | Facing Failures | <ol style="list-style-type: none"> 1. Thomas Edison's factory burns down, New York Times Archives, Page 1, 10/12/1914 2. <u>Lincoln Financial Foundation</u>, Abraham Lincoln's "Failures": Critiques, Forgotten Books, 2017 3. J.K. Rowling Harvard Commencement Speech Harvard University Commencement, 2008 4. Born Again on the Mountain: A Story of Losing Everything and Finding It Back, <u>Arunima Sinha</u>, Penguin, 2014 5. Failing Forward: Turning Mistakes Into Stepping Stones for Success, <u>John C. Maxwell</u>, Thomas Nelson, 2007 6. Steve Jobs: The Exclusive Biography Paperback, <u>Walter Isaacson</u>, Abacus, 2015 7. Failing Forward: Turning Mistakes Into Stepping Stones for Success, <u>John C. Maxwell</u>, Thomas Nelson, 2007 |
| 2 | Learning from Legends | <ol style="list-style-type: none"> 1. Chase Your Dreams: My Autobiography, Sachin Tendulkar, Hachette India, 2017 2. Playing It My Way: My Autobiography, Sachin Tendulkar, Hodder & Stoughton, 2014 3. The Wit and Wisdom of Ratan Tata, Ratan Tata, Hay House, 2018 4. The Tata Group: From Torchbearers to Trailblazers, Shashank Shah, Penguin Portfolio, 2018 |

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|---|--------------------|---|
| | | <ol style="list-style-type: none"> 5. The Leader Who Had No Title, Robin Sharma, Jaico Publishing House, 2010 6. In the Joy of Others: A Life-Sketch of Pramukh Swami Maharaj, Mohanlal Patel and BAPS Sadhus, Swaminarayan Aksharpath, 2013 |
| 3 | My India My Pride | <ol style="list-style-type: none"> 1. Rishis, Mystics, and Heroes of India, Sadhu Mukundcharandas, Swaminarayan Aksharpath, 2011 2. Physics in Ancient India, <u>Narayan Dongre</u>, <u>Shankar Nene</u>, National Book Trust, 2016 3. <u>The Rise of Civilization in India and Pakistan</u>, Raymond Allchin, Bridget Allchin, <u>Cambridge University Press</u>, 1982 4. <u>The Āryabhaṭīya of Āryabhata: An Ancient Indian Work on Mathematics and Astronomy</u> (1930), <u>Walter Eugene Clark</u>, University of Chicago Press, reprint, Kessinger Publishing, 2006 |
| 4 | Remaking Yourself | <ol style="list-style-type: none"> 1. Power of Habit, Charles Duhigg, Random House Trade Paperbacks, 2014 2. Change Your Habit, Change Your Life, Tom Corley, North Loop Books, 2016 3. The Seven Habits of Highly Effective People, Stephen Covey, Simon & Schuster, 2013 4. Seven Habits of Highly Effective Teens, Sean Covey, Simon & Schuster, 2012 5. Atomic Habits, James Clear, Random House, 2018 6. How a handful of tech companies control billions of minds every day, Tristan Harris, TED Talk, 2017 |
| 5 | From House to Home | <ol style="list-style-type: none"> 1. “What Makes a Good Life? Lessons from the Longest Study on Happiness”, R. Waldinger, Ted Talks, 2015 2. Long Walk To Freedom, Nelson Mandela, Back Bay Books, 1995 3. Outliers, Malcolm Gladwell, Back Bay Books, 2011 |
| 6 | Soft Skills | <ol style="list-style-type: none"> 1. The 17 Indisputable Laws of Teamwork, John Maxwell, HarperCollins, 2013 2. Team of Teams: New Rules of Engagement for a Complex World, Stanley McChrystal, Portfolio, 2015 3. Predictably Irrational, Revised and Expanded Edition: The Hidden Forces That Shape Our Decisions, <u>Dan Ariely</u>, Harper Perennial, 2010 |
| 7 | Selfless Service | <ol style="list-style-type: none"> 1. Open: An Autobiography, Andre Agassi, Vintage, 10 August 2010 2. The Physiological Power of Altruism [online], James Hamblin, The Atlantic, December 30, 2015, https://www.theatlantic.com/health/archive/2015/12/altruism-for-a-better-body/422280/ [last accessed June 10, 2020] 3. TBI Blogs: From Entrepreneurs to Doorkeepers, Everybody Serves with Love & Warmth at This Ahmedabad Café [online], <u>The</u> People Place Project, The Better India, May 29, 2017, https://www.thebetterindia.com/102551/small-way-serve-ahmedabad-seva-cafe/, [last accessed June 10, 2020] |




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