



VEER NARMAD SOUTH GUJARAT UNIVERSITY
DIGITAL PROSPECTUS
DECENTRALIZED ONLINE ADMISSION FOR
F. Y. B.C.A.
(2020-2021)

UNIVERSITY EMBLEM



The University emblem of VEER NARMAD SOUTH GUJARAT UNIVERSITY presents a circular crest with a spiral of a six pointed star enclosed within a symbol of the sun. The triple imaged emblem is framed by the name of the University in Gujarati on the rim of the left third; in English on the right third, and the motto of the University in Sanskrit on the lower third of the round frame. The motto is "**SATYAM GYANAM ANANTAM**" which means "Truth, Knowledge, Infinity." The three-part emblem illustrates this with the sun representing truth, the star representing knowledge and the spiral representing infinity.

VISION

To be an institute of excellence in higher and technical education segment, sensitive to its regional needs and changing global realities.

MISSION

In pursuance of its vision, Veer Narmad South Gujarat University offers different programmes through well designed curricular, co-curricular and extra-curricular activities; Undertakes research and reaches out to society at large with various extension activities, in order to empower its stakeholders for the world class skills in terms of research and enquiry, creativity and innovation, capacity to use high technology and value-based ethical leadership.

શુભેચ્છા સંદેશ



'કોરોના' સંક્રમણની પરિસ્થિતિને ધ્યાને લઈ સ્નાતક કક્ષાએ પ્રવેશની કામગીરી રાજ્ય સરકારના ઠરાવ અનુસાર સંપૂર્ણ ઓનલાઈન તથા શ્રેષ્ઠતા અને ગુણવત્તાના ધોરણે પારદર્શક રીતે પૂર્ણ કરી શકાય. વિદ્યાર્થીઓએ પોતાના દસ્તાવેજોની ખરાઈ કરવા કોલેજ, યુનિવર્સિટી કે અન્ય કોઈ જગ્યાએ રૂબરૂમાં જવું ન પડે તે રીતનું આયોજન યુનિવર્સિટીએ કરેલ છે. પ્રવેશ પ્રક્રિયા દરમ્યાન ઉદ્ભવતી મુઝવણના નિરાકરણ માટે ૧૦ ટેલિફોન નંબરો તથા ઈ-મેઈલ આઈ.ડી. ની હેલ્પલાઈનની વ્યવસ્થા ઉભી કરવામાં આવી છે.

ધોરણ ૧૨ની પરીક્ષા ઉત્તીર્ણ થઈને વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી, સુરત અને સંલગ્ન કોલેજોમાં પ્રવેશ મેળવવા માટે આપ સૌ આતુર છો, આપ સૌને હાર્દિક શુભેચ્છાઓ પાઠવું છું. જેના કારણે આપનું ભાવિ બંધાય છે, ઘડાય છે અને આપણામાં રાષ્ટ્રીયતાની ભાવના વધુ પ્રગાઠ બને છે તેવા ઉચ્ચ શિક્ષણના નવીન પાઠ્યક્રમો, નવું જ પર્યાવરણ અને નવા મિત્રો સાથે ભણવાનો આનંદ જ અલગ હોય છે. આપણી યુનિવર્સિટી અને તેની સાથે સંલગ્ન કોલેજોમાં આજે સમયને અનુરૂપ અનેક પ્રકારના અભ્યાસક્રમોનું અધ્યાપન કાર્ય કરાવવામાં આવી રહ્યું છે.

'કોરોના'ના સંક્રમણથી બચી શકાય તે રીતે સમગ્ર પ્રવેશ પ્રક્રિયા દરમ્યાન સોશયલ ડિસ્ટન્સિંગનું પાલન કરવા તથા પ્રવેશ મળી ગયા બાદ 'કોરોના' સંક્રમણની સ્થિતિને ધ્યાને લઈ ઓનલાઈન શિક્ષણ પદ્ધતિથી શિક્ષણની યાત્રા અવિરત રાખવા અનુરોધ કરું છું.

સ્નાતક કક્ષાના વર્ગખંડોમાં આપ સૌ યોગ્ય શિક્ષણની સાથે સાથે નૈતિક મૂલ્યોનું શિક્ષણ પણ પ્રાપ્ત કરજો, જેના કારણે આપણો સમાજ તથા આપણું રાષ્ટ્ર સમૃદ્ધિ અને પ્રગતિને પંથે પ્રયાણ કરી શકે. આપ સૌ દેશના ભાવિનાગરિકો છો અને દેશની પ્રગતિનો આધાર આપ સૌ વિદ્યાર્થીઓ છો. આપના શિરે આ સૌથી મોટી જવાબદારી છે. જેનું વહન આપ સૌ ઉત્તમ રીતે કરી શકશો તેવી મને શ્રદ્ધા છે અને આ ભગીરથ કાર્યમાં સૌ સફળ નીવડો તેવી પુનઃ શુભેચ્છાઓ પાઠવું છું. આ નાગરિક-ધર્મમાં સફળતા મેળવવા માટે શિક્ષણનાં ત્રણ પૂરક ઉપકરણો પૈકી પ્રવચનો, પુસ્તકાલયો અને પ્રયોગશાળાઓનો આપ સૌ ભરપૂર ઉપયોગ કરજો. આ મંત્રને આપ સૌ આદર્શ માનીને આગળ વધજો, જેમાં આપનું જ નહીં પણ આપણા રાષ્ટ્રનું શ્રેય સમાયેલું છે. જે કોઈ રાષ્ટ્રનો વિચાર કરે છે તે સૌનો દેશબંધુ છે.

(ડૉ.શિવેન્દ્ર ગુપ્તા)
કુલપતિ

શુભેચ્છા સંદેશ



ઉચ્ચતરમાધ્યમિક શાળાની પરીક્ષા પસાર કરવા માટે આપ સૌને અભિનંદન પાઠવું છું અને વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી, સુરત અને યુનિવર્સિટી સાથે સંલગ્ન કોલેજોના સ્નાતકના અભ્યાસક્રમમાં પ્રવેશ મેળવવા માટે આવેદનપત્ર પ્રસ્તુત કરવા માટે ધન્યવાદ આપું છું.

આપ સૌ ઉચ્ચશિક્ષણમાં પ્રથમ પગલું માંડી રહ્યા છો. ઉચ્ચશિક્ષણ વિદ્યાર્થીઓ પાસેથી અમુક પ્રકારની તાલીમની ભૂમિકાની અપેક્ષા રાખે છે. અમુક પ્રકારના બૌદ્ધિક ગજાની અપેક્ષા રાખે છે, અમુક પ્રકારની પૂર્વતૈયારીની અપેક્ષા રાખે છે. આ અપેક્ષાઓ આપ પૂરી કરશો તેવી અપેક્ષા રાખું છું.

ઉચ્ચશિક્ષણ વિદ્યાર્થી પરત્વે ત્રણ કાર્યો કરે છે: તેનામાં રહેલી સુષુપ્ત શક્તિઓને બહાર લાવે છે, એટલે કે આત્મઅભિવ્યક્તિનું કાર્ય કરે છે, તેને પોતાને માટે વિકાસની જે શ્રેષ્ઠ કક્ષા સંભવિત છે ત્યાં પહોંચવામાં, ઉચ્ચ ઉઠવામાં સહાય કરે છે, એટલે કે આત્મઆવિષ્કારના કાર્યમાં મદદ કરે છે અને ત્રીજું તેના વિશિષ્ટ રસ, વલણ અને અભિરુચિને સ્વીકારી તેના આગવા વ્યક્તિત્વને વિકસાવે છે. આપ સૌને આ કાર્યો આપની ભાવી કારકિર્દીમાં બહુ જ ઉપયોગી નીવડશે.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી અને યુનિવર્સિટી સંલગ્ન કોલેજોમાં વિવિધ પ્રકારના અભ્યાસક્રમો ચાલી રહ્યા છે. આ અભ્યાસક્રમોમાં વિદ્યાર્થીઓને પ્રવેશ માટે સરળતાથી આવેદનપત્ર પ્રસ્તુત કરવા માટે ગત વર્ષની જેમ આ વર્ષે પણ સફળ રહેલ ઓનલાઈન સિસ્ટમને અપનાવવામાં આવેલ છે. જેનાથી વિદ્યાર્થીઓને પારદર્શી પ્રવેશ પ્રક્રિયાનો લાભ મળશે. હું આશા રાખું છું કે, આપને આપના મેરીટના ધોરણે આપની ઈચ્છિત સંસ્થામાં પ્રવેશ મળે. ઉચ્ચશિક્ષણમાં ડગ માંડવા માટે આપ સૌને શુભેચ્છાઓ આપું છું. પ્રવેશ પ્રક્રિયા સાથે સંકળાયેલ સહુ કોઈને ધન્યવાદ આપું છું.

(ડૉ. રાજેન્દ્ર પટેલ)
કા. કુલસચિવ

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી, સુરત

B.C.A. અભ્યાસક્રમોમાં ઓનલાઈન પ્રવેશ કાર્યક્રમ શૈક્ષણિક વર્ષ : ૨૦૨૦-૨૦૨૧

B.C.A. અભ્યાસક્રમોમાં પ્રથમ સેમેસ્ટર માટે પાત્રતા ધરાવતા પ્રવેશ વર્ષ : ૨૦૨૦-૨૦૨૧ માં પ્રવેશ મેળવવા માંગતા વિદ્યાર્થીઓએ ઓનલાઈન અરજી કરવાની રહેશે. વિદ્યાર્થીની પસંદગી મુજબ જે તે કોલેજમાં મેરીટ મુજબ એડમિશન મેળવવાનું રહેશે.

(૧)	પ્રવેશ યોગ્યતા	<ul style="list-style-type: none"> • BCA અભ્યાસક્રમ માટે ઉમેદવાર ધો. ૧૨ (વિજ્ઞાન પ્રવાહ) A / B / AB ગ્રુપ સાથે / સામાન્ય પ્રવાહ (બીઝનેસ મેક્સ અથવા સ્ટેટેસ્ટીકસ અથવા ઈકોનોમીકસ માંથી કોઈ પણ એક)/ વોકેશનલ પ્રવાહ. <p>અંગ્રેજી વિષય સાથે પાસ કરેલ હોવું જરૂરી છે.</p> <p>કુલ બેઠકો પૈકી ૫૫% બેઠકો ધોરણ-૧૨ના વિજ્ઞાન પ્રવાહ માટે તથા કુલ બેઠકો પૈકી ૪૫% બેઠકો ધોરણ-૧૨ સામાન્ય પ્રવાહ વોકેશનલ સ્ટ્રીમ સહીત</p>
(૨)	ઓનલાઈન અરજી કરવાની તારીખ	B.C.A માટે તા. ૦૧/૦૭/૨૦૨૦ થી તા. ૧૫/૦૭/૨૦૨૦ યુનિવર્સિટીની વેબસાઈટ : www.vnsgu.ac.in પર અરજી કરવાની રહેશે.
(૩)	માહિતી પુસ્તિકા અને રજીસ્ટ્રેશન ફી :	પ્રવેશ અંગેની માહિતી પુસ્તિકા ઓનલાઈન પીડીએફ ફોર્મટ (સોફ્ટકોપી) માં ઉપલબ્ધ છે. પ્રવેશ માટેની પ્રોસેસિંગ ફી ઓનલાઈન નેટબેંકિંગ અથવા ડેબીટ / ક્રેડીટ કાર્ડ થી રૂ.૨૦૦/- ભરવાની રહેશે. અન્ય કોઈ પણ રીતે રજીસ્ટ્રેશન ઉપલબ્ધ નથી.
(૪)	ડોક્યુમેન્ટ સબમીશન	તમામ વિદ્યાર્થીઓએ માર્કશીટ તથા (SC, ST, SEBC, P.H., EWS, Sports)ના તમામ દસ્તાવેજો ફરજીયાત ઓનલાઈન જ અપલોડ કરવાના રહેશે. ડોક્યુમેન્ટ જમા કરવા કે વેરીફાઈ કરાવવા કોલેજ કે યુનિવર્સિટી ખાતે રૂબરૂમાં જવાનું રહેશે નહીં. વિદ્યાર્થીઓને ફાળવવામાં આવનાર પ્રવેશ પ્રોવીઝનલ ગણાશે કોઈ પણ તબક્કે રજુ કરેલ ડોક્યુમેન્ટ ની સત્યતા બાબતે અથવા પ્રવેશ માટેની નિર્ધારિત લાયકાત અંગે કોઈ વિસંગતતા ઉભી થશે તેવા સંજોગોમાં પ્રવેશ રદ કરવા સહીતનો યુનિવર્સિટીનો નિર્ણય આખરી ગણાશે. ઓનલાઈન ફોર્મ ભરવામાં થતી મુઝવણો માટે હેલ્પલાઈન નંબર પર જ પુછપરછ કરી સ્પષ્ટતા મેળવી લેવાની રહેશે.

ઉમેદવારે એડમિશનને લગતી માહિતી માટે યુનિવર્સિટીની વેબસાઈટ: www.vnsgu.ac.in પર વખતો વખત જોતા રહેવું. ઓનલાઈન ફોર્મ ભરતી વખતે ડેબીટ / ક્રેડીટ કાર્ડ / નેટબેંકિંગ માટે જે મોબાઈલ ફોન રજીસ્ટર હોય તે સાથે રાખવો.

નોંધ : CBSE તથા અન્ય બોર્ડના વિદ્યાર્થીઓ માટે ૧૦% સરકારશ્રીના આદેશાનુસાર બેઠકો અનામત રાખવામાં આવેલ છે. CBSE નાં પરિણામ જાહેર થયા બાદ આ બેઠકો માટે અલગથી પ્રવેશ કાર્યવાહી હાથ ધરવામાં આવશે.

તા. ૦૧/૦૭/૨૦૨૦

સ્થળ : સુરત

ઈન્ચાર્જ કુલસચિવ

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી, સુરત

B.C.A.માં ઓનલાઈન પ્રવેશ પ્રક્રિયા માટેની અગત્યની સૂચનાઓ

૧. વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટીની કોલેજમાં પ્રથમ વર્ષ બી.સી.એ.ના અભ્યાસક્રમોમાં પ્રવેશ મેળવવા ઈચ્છતા તમામ વિદ્યાર્થીઓએ પ્રવેશ માટેની માહિતી પુસ્તિકામાં આપેલ સૂચનાઓ અનુસાર યુનિવર્સિટી વેબસાઈટ www.vnsgu.ac.in ઉપર જઈને પ્રથમ રજીસ્ટ્રેશન કરાવવાનું રહેશે.
૨. પ્રવેશ અંગેની માહિતી પુસ્તિકામાં દર્શાવ્યા મુજબ વિદ્યાર્થીએ પોતાની પ્રવેશ અંગેની લાયકાતની ચકાસણી બાદ જ પ્રવેશ ફોર્મ ભરવું. ફાળવવામાં આવનાર પ્રવેશ પ્રોવિઝનલ ગણાશે તથા ભવિષ્યમાં પ્રવેશ માટેની નિર્ધારિત લાયકાત અંગે કોઈ વિસંગતતા ઉભી થશે તેવા સંજોગોમાં પ્રવેશ રદ કરવા સહિતનો યુનિવર્સિટીનો નિર્ણય આખરી ગણાશે.
૩. વિદ્યાર્થી ધ્વારા યુનિવર્સિટી વેબસાઈટ www.vnsgu.ac.in ઉપર તારીખ : ૦૧/૦૭/૨૦૨૦ સવારે ૧૧:૦૦ કલાક થી તારીખ : ૧૫/૦૭/૨૦૨૦ સાંજે ૫.૦૦ કલાક સુધી ઓનલાઈન ફોર્મ ભરી શકશે. Online ફોર્મ ભરતા પહેલા upload કરવાના તમામ documents S.S.C. અને H.S.C ની માર્કશીટ, તથા (SC, ST, SEBC, (Non-Creamy layer) P.H., EWS, Sports)ની soft copy તૈયાર રાખવી. ઓછામાં ઓછી 100 KB તથા વધુમાં 300 KB વધુ ની સાઈઝની jpg અથવા jpeg ફાઈલ બનાવી ડાક્યુમેન્ટ અપલોડ કરવાના રહેશે. ધોરણ-૧૦ તથા ધોરણ-૧૨ માં એક કરતા વધુ પ્રયત્નોથી પાસ થયેલા હોય તેવા કિસ્સામાં જે તે ધોરણની તમામ પ્રયત્નોની માર્કશીટોની એક જ પી.ડી.એફ. (વધુમાં વધુ 5 એમ.બી.) ફાઈલ બનાવી પી.ડી.એફ. ફોર્મટમાં જ અપલોડ કરવાની રહેશે.
૪. ઓનલાઈન પ્રવેશ ફોર્મ ભરવા માટે વિદ્યાર્થી પાસે મોબાઈલ નંબર તથા પોતાનું ઈમેઈલ આઈડી હોવું ફરજિયાત છે. સૌ પ્રથમ વિદ્યાર્થીએ ઓનલાઈન રજીસ્ટ્રેશન કરાવવું રહેશે. જેમાં વિદ્યાર્થીને તેનો એપ્લિકેશન નંબર તથા પાસવર્ડ તેના મોબાઈલ તથા ઈમેઈલમાં મળશે. ત્યારબાદ પ્રાપ્ત થયેલ એપ્લિકેશન નંબર તથા પાસવર્ડની મદદથી વિદ્યાર્થીએ ઓનલાઈન પ્રવેશ ફોર્મમાં માંગ્યા મુજબની તમામ વિગતો અચૂક ભરવાની રહેશે તથા તમામ દસ્તાવેજો અપલોડ કરવાના રહેશે. વિદ્યાર્થીએ પોતાને મળેલ પાસવર્ડ ગુપ્ત રાખવાનો રહેશે તથા તેને રજીસ્ટ્રેશનની પ્રક્રિયા પૂર્ણ થાય ત્યાં સુધી સાચવી રાખવો ખૂબ જરૂરી છે.
૫. GHSEB માંથી માર્ચ ૨૦૧૯ તથા માર્ચ ૨૦૨૦માં પ્રથમ પ્રયત્ને પાસ કરેલ ૧૨ વિજ્ઞાન પ્રવાહ તેમજ સામાન્ય પ્રવાહની પરીક્ષાનો સીટ નંબર નાખતા વિદ્યાર્થીને પોતાના માર્કસ દેખાશે. જેની ચકાસણી વિદ્યાર્થીએ પોતે કરવાની રહેશે. જે અંગેની જવાબદારી વિદ્યાર્થીની રહેશે.
૬. કોલેજમાં ચાલતા વિષયો તથા મીડીયમની તમામ વિગતો માહિતી પુસ્તિકામાં દર્શાવેલી છે તે મુજબની કોલેજની પસંદગી કરી શકે છે. દરેક ઉમેદવારે ઓછામાં ઓછી ૦૭(સાત) કોલેજોની પસંદગી આપવાની છે. જો વિદ્યાર્થી ઈચ્છે તો ૦૭(સાત) કરતા વધુ કોલેજ પસંદ કરી શકે છે. વિદ્યાર્થી જે જિલ્લાની કોલેજમાં પ્રવેશ મેળવવા માંગતો હોય તે જિલ્લાને

પસંદ કરવાથી તે જિલ્લાની તમામ કોલેજોના નામ ડેશબોર્ડ પર ખુલશે.

૭. ઓનલાઈન પ્રવેશ ફોર્મની તમામ વિગતોભરી તમામ દસ્તાવેજો અપલોડ કર્યા બાદ પ્રવેશ ફોર્મ પ્રોસેસીંગ ફી રૂ.૨૦૦/- ઓનલાઈન માધ્યમથીજભરવાની રહેશે. વિદ્યાર્થીએ પોતાના ડેબિટકાર્ડ, ક્રેડિટકાર્ડ કે નેટ બેંકિંગના કોઈપણ એક વિકલ્પથી પ્રવેશ ફોર્મ પ્રોસેસીંગ ફી ભરવાની રહેશે. પ્રવેશ ફોર્મ પ્રોસેસીંગ ફી કોઈ સંજોગોમાં રીફંડ કરવામાં આવશે નહીં.
૮. પ્રવેશ ફોર્મ ઓનલાઈન ભરાઈ ગયા બાદ દરેક વિદ્યાર્થીએ પોતાના રેકોર્ડ માટે ભરાઈ ગયેલા ફોર્મની સોફ્ટ કોપી અથવા પ્રિન્ટ રેકોર્ડ માટે સાચવીને રાખવાની રહેશે. કોઈ પણ વિદ્યાર્થીઓએ ડોક્યુમેન્ટ વેરીફિકેશન માટે કોલેજ પર જવાનું નથી. યુનિવર્સિટી દ્વારા ઓનલાઈન વેરીફિકેશન કરવામાં આવશે.
૯. યુનિવર્સિટી ધ્વારા ઓનલાઈન પ્રવેશ પ્રક્રિયા અંગેની મહત્વની સૂચનાઓ વખતોવખત યુનિવર્સિટી વેબસાઈટ ઉપર જાહેર કરવામાં આવશે. જેથી વિદ્યાર્થીઓને સૂચિત કરવામાં આવે છે કે, તેઓએ યુનિવર્સિટી વેબસાઈટ નિયમિત જોતા રહેવું.
૧૦. વિદ્યાર્થીને ફોર્મ ભરવા અંગે મુશ્કેલી હોય તો યુનિવર્સિટીએ જાહેર કરેલા હેલ્પલાઈન નંબર પર સંપર્ક કરી શકશે. હેલ્પ લાઈન નંબર નીચે મુજબ છે.
6357099831, 6357099832, 6357099834, 6357099835, 6357099836
૧૧. અનામત બેઠક અંગે માહિતી તથા ફી અંગેની વિગતોમાહિતી પુસ્તિકામાં દર્શાવેલ છે.
૧૨. ઓપન કેટેગરી સહિતના તમામ વિદ્યાર્થીઓએ જે કોલેજોની પસંદગી આપી છે તે કોલેજમાં પ્રોવિઝનલ મેરીટ લીસ્ટમાં પોતાના માર્ક્સ કેટેગરી (OPEN, ST, SC, SEBC, EWS, SPORTS) તથા અન્યવિગતોની ચકાસણી કરવી. આ અંગેની જવાબદારી જે તે વિદ્યાર્થીની પોતાની રહેશે. મેરીટ યાદીમાં કોઈ ભૂલ જણાય તેવા કિસ્સામાં મેરીટ યાદીમાં દર્શાવ્યા અનુસારની રજૂઆત કરવાની પ્રક્રિયાને અનુસરી જરૂરી દસ્તાવેજો સાથે રજૂઆત કરવાની રહેશે.
૧૩. સમગ્ર પ્રવેશ પ્રક્રિયા દરમિયાનવિદ્યાર્થીને કોઈ પણ પ્રકારની ફરિયાદ / મુંજવણ હોય તો ugadmission@vnsgu.ac.in ઈ-મેઈલ આઈડી પર પોતાનો એપ્લિકેશન ફોર્મ નંબર, મોબાઈલ નંબર દર્શાવી તથા અન્ય દસ્તાવેજો એટેચ કરી ઈ-મેઈલ મારફતે પણ પ્રશ્નનું નિરાકરણ લાવી શકાશે.
૧૪. પ્રવેશ પ્રક્રિયા માટે દરેક વિદ્યાર્થીએ નિયમિત ડેશબોર્ડ જોવું. ડેશ બોર્ડ પરની માહિતી જ ફાઈનલ ગણાશે. SMS અને Email વધારાની સગવડ છે. SMS અને Email ના આધારે કોઈ લીગલ કલેઈમ કરી શકાશે નહીં. માટે ડેશબોર્ડ દરરોજ જોતા રહેવું
૧૫. વિદ્યાર્થી જે કોલેજમાં પ્રવેશ મેળવશે તે કોલેજમાં વિદ્યાર્થીએ ઓરીજીનલ ડોક્યુમેન્ટસ રજૂ કરવાના રહેશે. જેની ચકાસણી કર્યા બાદ ડોક્યુમેન્ટસ પરત આપવામાં આવશે. અસલ પ્રમાણપત્રની ચકાસણી દરમિયાન જો કોઈ વિસંગતતા જોવા મળશે તો પ્રવેશ રદ કરવા સહિતનો યુનિવર્સિટીનો નિર્ણય આખરી ગણાશે.

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

ONLINE ADMISSION PROCESS 2020-2021 FOR B. B. A

Important Instructions to students for Admission Process

- 1 All students desirous of seeking admission for B.C.A. offered by the colleges affiliated to the Veer Narmad South Gujarat University, Surat are required to apply online through website www.vnsgu.ac.in as per the guidelines given in the prospectus.
- 2 Before filling up the form the applicant must read the eligibility criteria given in the prospectus very carefully. Allotted admission shall be considered provisional and in case of any discrepancy found at any stage pertaining to conditions of eligibility, the decision of the university including cancellation of admission shall be final.
- 3 Online application can be done from **01-07-2020** from 11.00 am onwards to **15-07-2020** till 5.00 pm through University website. Before filling online form keep ready soft copy of all documents S.S.C and H.S.C. Mark Sheet (SC, ST, SEBC, (Non creamy layer) P.H., EWS, Sports) which you need to upload. Only jpg or jpeg file of minimum 100 kb and maximum 300 kb size and to be uploaded. In case a candidate has passed 10th or 12th examination with more than one attempt he/she shall have to generate single PDF file (maximum 5 mb) of all mark sheets of respective standard and upload that PDF file only.
- 4 Applicant must provide Mobile Number and Email ID to get application number and password for the registration process for filling the online application form. After getting application number and password student has to fill up all the required information in the online admission form. The student has to keep the password with him till the entire admission process is completed and is advised to keep it secret.
- 5 Applicants who have passed 12th Examination at first attempt during March 2019 or March 2020 will be able to see his/her marks on Dashboard after entering exam seat number. Applicant should also check the same with his/her responsibility.
- 6 Information about colleges are given in the prospectus. Accordingly student can select the college of his/her choice. Student has to select minimum Seven (7) colleges. Applicant is advised to fill maximum number of available choices to maximize his chances of getting admission. Student can observe list of all colleges in a particular district on the Dashboard and select college accordingly.
- 7 On completing the application form, student will be directed to the payment gateway, to pay fees for processing of application for admission of Rs.200/- through online mode only,

(Payment shall be done through Credit Card, Debit Card or Net Banking). The processing fees of application for admission shall not be refunded, in any case. Student will be eligible for merit list and admission only and only if payment of processing fee is completed.

- 8 After submitting the online application form, it is advisable for student to keep the print-out or softcopy of application form for his/her own record. The Student don't have to go to college for document verification. Online document Verification done by university.
- 9 Applicants are requested to visit the University website regularly for updates regarding online admission process.
- 10 In case of any difficulty during admission process the students can contact help line numbers. The help line numbers are given below.
6357099831, 6357099832, 6357099834, 6357099835, 6357099836
- 11 Information about Reservation seats and fees are given in the prospectus.
- 12 Students of all categories including open category have to check their marks in merit list all B.C.A. colleges, provisional merit list along with all other relevant information. In case of any discrepancy, student shall immediately report to the University. It is the sole responsibility of the student to check and verify his/her details in provisional merit list. Once the final merit list is prepared, no changes in it will be allowed.
- 13 Student can send his/her grievances about the admission process **ugadmission@vnsgu.ac.in** mentioning application number, mobile number and relevant documents.
- 14 All students must see his/her Dashboard regularly for any update or information related to admission. SMS and Email is additional facility. Legal claim cannot be staked on the basis of SMS or email.
- 15 After admission is granted in any college to respective student he/she have to show all necessary original documents This is mandatory requirement. College office shall return back all original documents immediately after physical verification. Submission of photo copy of all documents is mandatory at time of admission. During the verification of document if any discrepancy will found, the decision of university Including cancellation of admission shall be Final.

પ્રવેશ યોગ્યતા

B. C. A.

- B.C.A. માટે વિદ્યાર્થીએ ધોરણ-૧૨(H.S.C.) ની પરીક્ષા સાયન્સ (એ, બી, એ+બી)/ સામાન્ય પ્રવાહ (G.H.S.E.B.)તથા (C.B.S.E., I.C.S.E.) અથવા તેને સમકક્ષ બોર્ડ (રાજ્ય સરકારના નિયમ અનુસાર) (બીઝનેસ મેથ્સ અથવા સ્ટેટેસ્ટીકસ અથવા ઈકોનોમીક્સ માંથી કોઈ પણ એક)/ વોકેશનલ પ્રવાહ. અંગ્રેજી વિષય સાથે પાસ કરેલ હોવું જરૂરી છે.

ELIGIBILITY FOR ADMISSION

B. C. A.

- Candidate must have passed Standard 12th (H.S.C) Examination in Science (A, B, AB)/ General stream through Gujarat Higher Secondary Education Board (G.H.S.E.B.) or any other equivalent board (C.B.S.E., I.C.S.E.) with English and (Business Maths or Economics or Statistics as one of the subject.) / Vocational Stream.

Fees Structure:

Sr. No.	Head of Fees	Self-Financed
		B.C.A.
1	Tuition Fee	11,000
2	Admission Fee (One Time)	100
3	Identity Card Fee (One Time)	50
4	Student Teacher's Welfare Activities Fee	300
5	Book & Equipment Fee	300
6	Student's Union Fee	100
7	Amenities Fee	350
8	Campus Development Fee	100
9	Internal Exam Fee	125
10	Enrolment Fee (One Time)	100
11	Enrolment Form Fee	20
12	Laboratory Fee (Including Computer Lab)	1000
13	College Deposit (Including online)	100
14	Library Deposit (One Time) (Including online)	200
15	University Campus Development Fee	50
16	University Sports & Cultural Activity Fee	20
17	University Sports Complex Development Fee	20
	Total	13,935

અનામત બેઠકો અંગે માહિતી

ગુજરાત સરકારશ્રીનાનિયમો અનુસાર જુદી જુદી કેટેગરીમાં અનામત બેઠકો અંગેની માહિતી નીચે પ્રમાણે છે. જો વિદ્યાર્થીઓ અનામત બેઠકોનો લાભ મેળવવો હોય તો સક્ષમ અધિકારી પાસેથી મેળવેલ જાતિ અંગેનું પ્રમાણપત્ર અવશ્યપણે રજૂ કરવાનું રહેશે. સામાજિક અને શૈક્ષણિક રીતે પછાત વર્ગના ઉમેદવારોએ સક્ષમ અધિકારી પાસેથી મેળવેલ જાતિ અંગેનું પ્રમાણપત્ર ઉપરાંત ઉન્નત વર્ગમાં આવતા નથી તે બાબતના પ્રમાણપત્રની અવધી (Validity) આવું પ્રમાણપત્ર જે નાણાંકીય વર્ષમાં મેળવ્યું હોય તે સહિત ત્રણ નાણાંકીય વર્ષની હોય છે તે મુજબ અવધી પૂર્ણ થયેલી ન હોવી જોઈએ.

ક્રમ	કેટેગરી	અનામતની ટકાવારી
૧	એસ. સી.	૭%
૨	એસ.ટી.	૧૫%
૩	એસ.ઈ.બી.સી.	૨૭%
૪	ઈ.ડબલ્યુ.એસ.	૧૦%

એસ.સી. અને એસ.ટી. અને એસ.ઈ.બી.સી. કેટેગરીની ખાલી રહેલ બેઠકોને ઓપન કેટેગરીમાં તબદીલ કરવામાં આવશે અને તે ખાલી બેઠકો પર ઓપન કેટેગરીના ઉમેદવારોને મેરીટના ધોરણે પ્રવેશ આપવામાં આવશે.

ગુજરાત રાજ્ય બહારના એસ.સી./એસ.ટી./એસ.ઈ.બી.સી. વિદ્યાર્થીઓને અનામત બેઠકનો લાભ મળવાપાત્ર નથી. જો તેમણે અનામત બેઠકનો લાભ મેળવવો હોય તો ગુજરાત સરકારનું સક્ષમ અધિકારી પાસેથી મેળવેલ જાતિ અંગેનું પ્રમાણપત્ર રજૂ કરવાનું રહેશે. ઉપરોક્ત તમામ અનામત બેઠક ઉપર મેરીટના આધારે પ્રવેશ આપવામાં આવશે.

બિનઅનામત વર્ગના Economically Weaker Section(EWS) કેટેગરીમાં પ્રવેશ મેળવવા માંગતા વિદ્યાર્થીઓએ EWS માટેનું પ્રમાણપત્ર સક્ષમ અધિકારી પાસેથી મેળવી રજૂ કરવાનું રહેશે.

શારીરિક રીતે વિકલાંગ, Other Board (અન્ય બોર્ડ) અને Other State(અન્યરાજ્ય) ના વિદ્યાર્થીઓ માટેની અનામત બેઠકો અંગે :

- ૧ શારીરિક રીતે વિકલાંગ ઉમેદવારો માટે બેઠકના ૩% બેઠક અનામત રહેશે(જે તે કેટેગરીમાં સમાવિષ્ટ) શારીરિક રીતે વિકલાંગ વિદ્યાર્થી જો અનામત બેઠકોનો લાભ મેળવવા માંગતા હોય તો તેણે સક્ષમ અધિકારી પાસેથી મેળવેલ ૪૦% કે તેના કરતા વધુ વિકલાંગતા દર્શાવતું પ્રમાણપત્ર રજૂ કરવાનું રહેશે.
- ૨ ગુજરાત હાયર સેકન્ડરી બોર્ડ સિવાયના અન્ય બોર્ડના વિદ્યાર્થીઓ માટે કુલ બેઠકોના ૧૦% બેઠકનો ક્વોટા અનામત રહેશે.
- ૩ કાશ્મીરી સ્થળાંતરીત માટે કોલેજ કોર્ષ/પ્રોગ્રામ દીઠ બે સીટ અનામત રહેશે.

• સિન્ડિકેટની તા. ૦૨/૦૬/૨૦૧૭ ના ઠરાવ ક્રમાંક : ૨ મુજબ સ્પોર્ટ્સના વિદ્યાર્થીઓ માટેની સુપર ન્યુમરરી બેઠકો અંગે :

- ૧ રાષ્ટ્રીય કક્ષાએ અથવા રાજ્ય કક્ષાએ ખેલકુદ / સાંસ્કૃતિક પ્રવૃત્તિઓ કે જે રમતગમત કે પ્રવૃત્તિઓ યુનિવર્સિટી દ્વારા જ પૈકીની આપણી યુનિવર્સિટી દ્વારા આગલા વર્ષમાં યોજાયેલ હોય, તેમા વિજેતા થયેલ વિદ્યાર્થીઓને ગ્રાન્ટ-ઈન-એઈડ સંસ્થાઓમાં વર્ગદીઠ ૪ (એક કોલેજમાં ૨૦ થી વધુ નહી) બેઠકોની ફાળવણી થઈ શકશે. અને તે માટે અલગ અરજી મંગાવી મેરીટ બનાવીને વિદ્યાર્થીઓનું કાઉન્સિલીંગ યુવક કલ્યાણ વિભાગદ્વારા ગ્રાન્ટ-ઈન-એઈડ કોલેજોમાં પ્રવેશો ફાળવવાના રહેશે
- ૨ ગ્રાન્ટ-ઈન-એઈડ સંસ્થાઓમાં " ઈન સર્વિસ મેન" અથવા " એક્સ સર્વિસમેન " ના આશ્રિતો માટે ૧% બેઠકો ફાળવાયેલ બેઠકો ઉપરાંત વધારાની બેઠક તરીકે નિયમાનુસાર ફાળવી શકાશે.

INFORMATION FOR RESERVATION SEATS

The information regarding the reservation of seats in different categories decided by Government of Gujarat are given below. If a student want to get benefit of reservation, he/she has to submit Caste Certificate issued by authorised officer. Candidates of S.E.B.C category are required to submit the Fresh Non-Creamy layer Certificate along with the cast certificate obtain from the authorised officer.

Sr. No.	Category	Percentage of Reservation
1.	S.C.	7%
2.	S.T.	15%
3.	S.E.B.C.	27%
4.	E. W. S.	10%

The vacant seats of the S.C./S.T. and S.E.B.C. category will be converted in to open category and on these converted seats, admission will be given to the candidates of open category on the basis of merit.

S.C./S.T./S.E.B.C. candidates of other than Gujarat State are not eligible to get benefit of reservation. If they want to get benefit of reservation, they have to obtain the Caste Certificate of Gujarat State from an authorised officer.

Admission will be given on the basis of merit on all the above reserved seats.

●EWS Students from open/cast who wants to get admission in Economical Weaker Section (EWS) have to get EWS certificate from authorised officers of government of Gujarat.

● RESERVATION FOR PHYSICALLY HANDICAPPED, CANDIDATES OF OTHER BOARD & OTHER STATE:

1. Reservation for Physically Handicapped is 3% of the total seats (included in respective category) if physically Handicapped Candidate wants to get benefit of reservation, he/she has to obtain a certificate indicating 40% or more disability from an authorised officer.
2. Reserved quota for candidate of other board except G.H.S.E.B. 10% of the total Seats.
3. Reservation for Kashmiri Migrant student: 2 seat per college / course/ programme.

• Supernumerary Seats for the candidates belonging to the category of Sports / Cultural events and In-serviceman / Ex-serviceman (Syndicate Resolution No. 2 Dated: 2/6/2017)

1. 4 seats per division (maximum 20 per college) in Grant-in-Aid colleges shall be allotted to the candidates who have participated in sports/cultural events at national or State level. Separate procedure including inviting applications and counselling shall be done by youth welfare department for admission to such seats in Grant-in-Aid colleges.).
2. 1% supernumerary shall be allotted to In-serviceman / Ex-serviceman in Grant-in-Aid colleges.

GUIDELINES FOR THE FILL UP OF ONLINE ADMISSION FORM

ઓનલાઇન પ્રવેશ ફોર્મ ભરવા માટેની માર્ગદર્શિકા

Technical Guidelines:

1.	This software is best suitable with google chrome browsers(આ સોફ્ટવેરનો ગુગલક્રોમ અને ઇન્ટરનેટ એક્ષ્પ્લોરરમાં ઉપયોગ કરવો વધુ યોગ્ય છે.)
2.	It is advisable to delete cookies from your browser folder. (આ સોફ્ટવેર વાપરતા પહેલા બ્રાઉઝરની કુકીઝ ડીલીટ કરવી સલાહ ભરેલ છે.)
3.	It is necessary to allow pop-up in browser for using this software. (આ સોફ્ટવેર વાપરતા પહેલા બ્રાઉઝરમાં pop-up અલાઉ હોવું જરૂરી છે.)
4.	At the time of quick registration you will receive an e-mail and SMS with your application number and password. You are advised to save this e-mail and SMS till admission process is complete. (ક્વીક રજીસ્ટ્રેશન પૂર્ણ થવાની સાથે આપને SMS અને ઈમેઇલ ધ્વારા પાસવર્ડ પ્રાપ્ત થશે. આ પાસવર્ડ માટેનો એસએમએસ અને ઈમેઇલ જાળવી રાખવો જેથી પાસવર્ડ ભૂલી જવાની પરિસ્થિતિમાં આપનો પાસવર્ડ આપને પ્રાપ્ત થઈ શકે.)

Help for Quick Registration:

Visit Admission website: www.vnsgu.ac.in

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VEER NARMAD SOUTH GUJARAT UNIVERSITY
॥ सत्यम् ज्ञानम् अनन्तम् ॥

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Admission 2020-21

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Greetings. Our great nation faces great challenges. The greatest challenge among these is the one to train the young citizen who are to be on the forefront in facing these challenges. The mammoth task that faces this university is to ensure that quality education is available to the youth, that comprise of historical high proportion of the global demographic distribution. Demographic dividend for an ancient as well as evergreen civilization and nation depends on large scaled competence. Competence is created in institutions of education with excellence. Hence, untiring pursuit of

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Submit Application
↓
Payment
↓
University Application

Select Faculty for Admission, Admission Form and Last Qualifying HSC / SSC BOARD, EXAM MONTH YEAR and SEAT NUMBER.

Note: In case of GSHSEB 2019 or 2020 PASSOUT, CLICK ON GET DATA BUTTON. Candidates' 12th Standard marks will be displayed automatically.

Note: For all other candidate, enter marks of HSC / SSC BOARD and all other required details as per candidate's mark sheet.



VNSGU
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Quick Registration

Faculty For Admission * COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Admission Form * ADMISSION FOR BACHELOR OF COMPUTER APPLICATION 2020-21


Last Qualifying H.S.C Exam Board * GSHSEB

Exam Month / Year * MAR 2020

Seat No * B123456 **Get Data**

Note: Please Enter GSEB Seat No In B999999 Format (without dash and space)

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UNIVERSITY

Quick Registration

Faculty For Admission * COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Admission Form * ADMISSION FOR BACHELOR OF COMPUTER APPLICATION 2020-21

Last Qualifying H.S.C Exam Board * GSHSEB

Exam Month / Year * MAR 2018

Seat No * **Get Data**

Note: Please Enter GSEB Seat No In B999999 Format (without dash and space)

Information

Your HSC data is not available with the system. Please enter your marks and other details related to your HSC Examination.

OK

Birth Date * DD/MM/YYYY

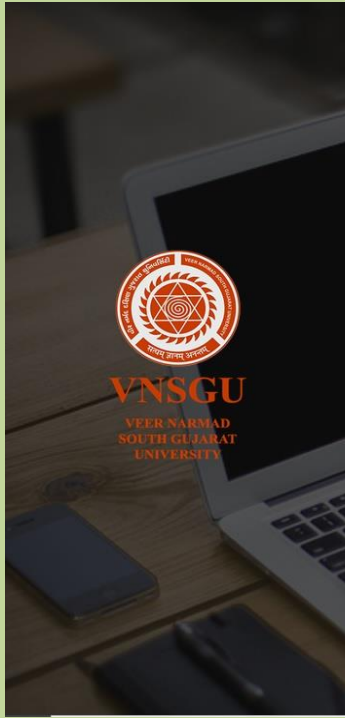
Email *

Mobile No *

Alternate Mobile No

Category * -- ALL --

Gender * --Please Select--



Quick Registration

Faculty For Admission * COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Admission Form * ADMISSION FOR BACHELOR OF COMPUTER APPLICATION 2020-21

Last Qualifying H.S.C Exam Board * GSHSEB

Exam Month / Year * MAR 2020

Seat No * B100000 Get Data

Note : Please Enter GSEB Seat No In B9999999 Format (without dash and space)

Surname * BODKHEY

Name * PARJOT

Father/Husband/Mother Name * DILIP

Birth Date * 02/02/1999

Email * abc@gmail.com

Mobile No * 9999999999

Alternate Mobile No

Category * General

Gender * Male

Do You Have Any Disability (PH) * None

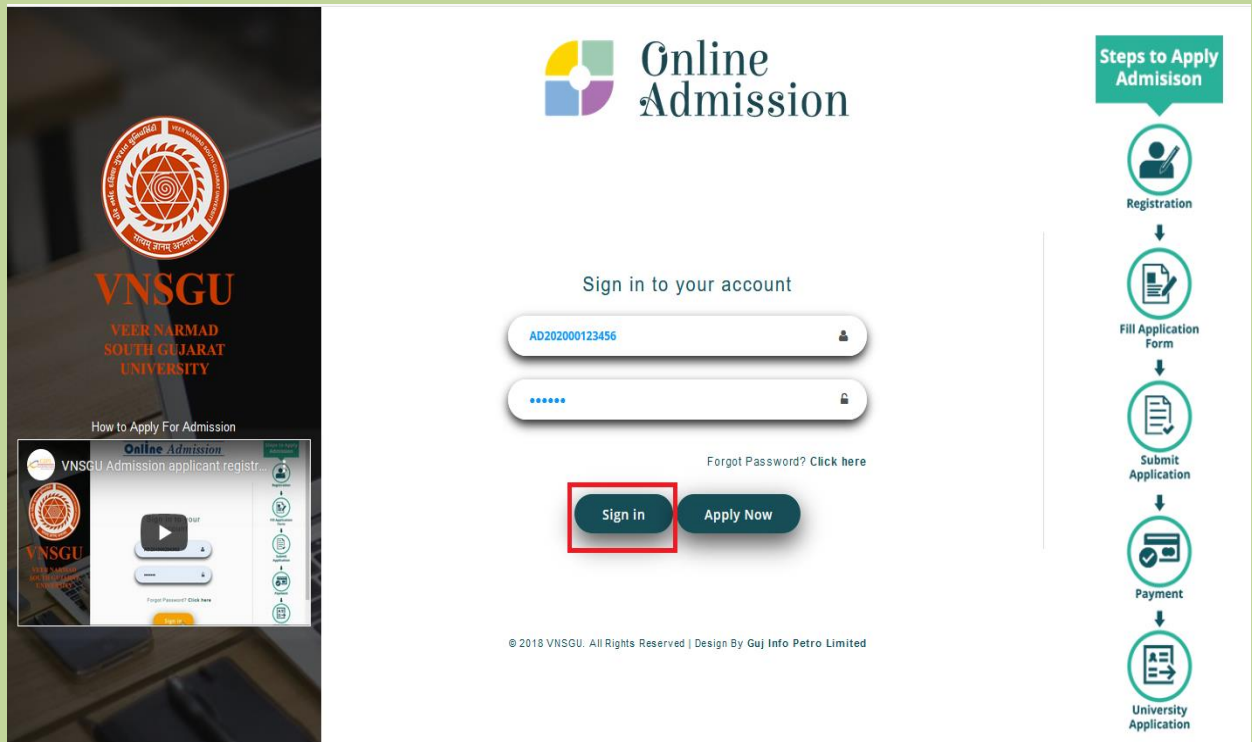
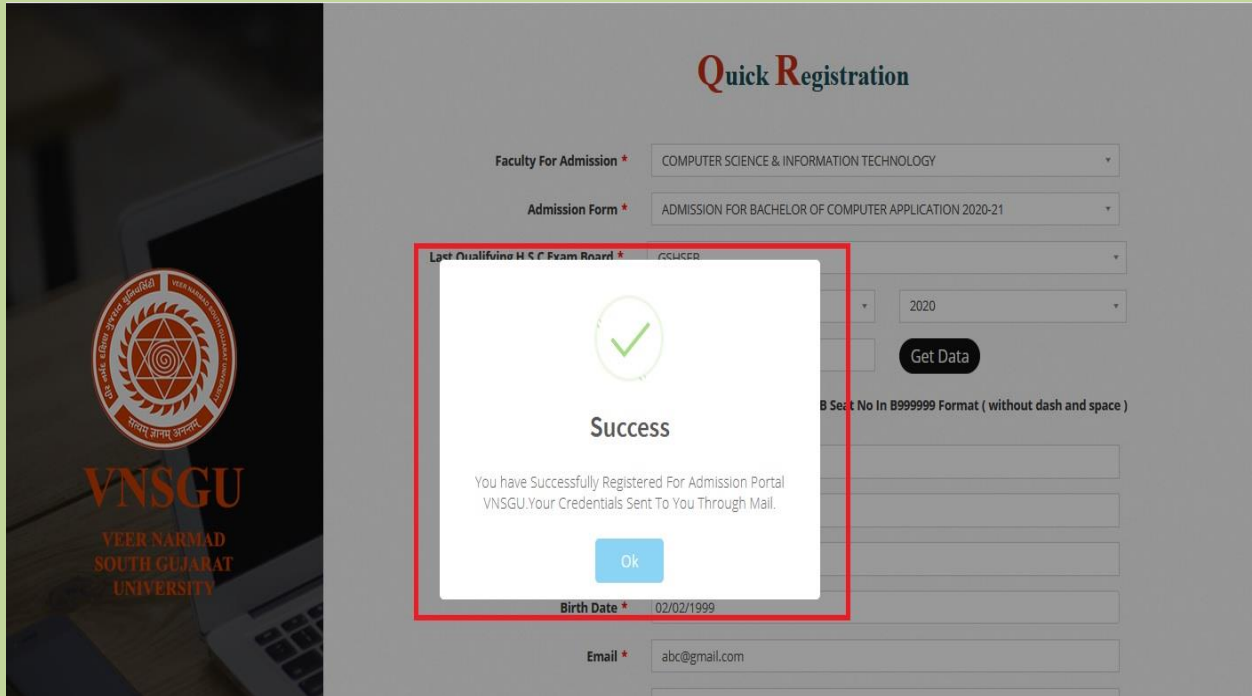
Region of Last School / College * Veer Narmad South Gujarat University Region (Except Union Territory)

Password * *****

Submit

1	Select your faculty for admission from the list. (પ્રવેશ માટેની વિદ્યાશાખા યાદીમાંથી પસંદ કરો.)
2	Select your admission form. (પ્રવેશ ફોર્મ યાદીમાંથી પસંદ કરો.)
3	Select your Last Qualifying H.S.C / S.S.C Exam Board. (તમારું છેલ્લું પાસ કરેલું ધોરણ – ૧૦ અને ૧૨ પરીક્ષા બોર્ડ પસંદ કરો.)
4	Enter Surname, Name, and Father/Husband/Mother Name as mentioned in your H.S.C mark sheet. (ધોરણ – ૧૨ ની માર્કશીટ મુજબ અટક, નામ, પિતાનું નામ / પતિનું નામ / માતાનું નામ દાખલ કરો.)
4	Enter your Birth Date in dd/mm/yyyy format. (જન્મ તારીખ, તારીખ / મહિનો / વર્ષ મુજબ દાખલ કરો.)
5	Enter your Email. (ઈમેઈલ એડ્રેસ દાખલ કરો.)
6	Enter your Mobile No. (મોબાઈલ નંબર દાખલ કરો.)
7	Enter your Alternate Mobile No. (તમારો બીજો મોબાઈલ નંબર દાખલ કરો.)
8	Select your Category. (તમારી કેટેગરી પસંદ કરો.)
9	Select your Gender. (તમારી લિંગ પસંદ કરો.)
11	Select this field, if you have disability. (જો તમે દિવ્યાંગ હો તો પસંદ કરો.)
12	Select Veer Narmad South Gujarat University Region (Except Union Territory), if you have passed 12 th exam from the school located in Surat, Navasari, Valsad, Narmada, Dangs, Bharuch and Tapi. (જો તમે ધોરણ – ૧૨ ની પરીક્ષા (કેન્દ્રશાસિત પ્રદેશ સિવાયના) વિસ્તારમાંથી સુરત, નવસારી, નર્મદા, ડાંગ, ભરૂચ અને તાપી સિવાયની શાળામાંથી પાસ કરેલ હોય તો વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી રીજન પસંદ કરો.) Select Veer Narmad South Gujarat University Region (Union Territory), if you have pass 12 th exam from the school located in Union Territory of Daman and Dadra and Nagar Haveli. (જો તમે ધોરણ – ૧૨ ની પરીક્ષા કેન્દ્રશાસિત પ્રદેશ દમણ અને દાદરાનગર હવેલીમાંથી પાસ કરેલી હોય તો વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી રીજન પસંદ કરો.) Select Other, if you are resident of outside VNSGU jurisdiction. (વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી વિસ્તાર બહારનાં રહેવાસી માટે અધર પસંદ કરો.)
13	Enter secret Password. Remember password till the end of the admission process. (તમારો ખાનગી પાસવર્ડ દાખલ કરો. આ પાસવર્ડ પ્રવેશ પ્રક્રિયા પૂર્ણ થાય ત્યાં સુધી લખી રાખી / યાદ રાખવા ખૂબ જ જરૂરી છે.)
14	Click on "Submit" Button. નીચે દર્શાવેલ સબમીટ બટન પર ક્લિક કરો.

After ABOVE step, you will get User ID and Password on your Mobile Number and Email ID. Using USER ID and PASSWORD, Click "Sign in" and fill up the registration form.



DASHBOARD: APPLICATION INFORMATION:

Click on APPLICATION DETAILS and review your BASIC details.

ડેશબોર્ડ : એપ્લિકેશન ઈન્ફોર્મેશન :

ડેશબોર્ડ ઉપર એપ્લિકેશન ઈન્ફોર્મેશન જેવી કે, એપ્લિકેન્ટ નેમ, એપ્લિકેન્ટ નંબર તથા કઈ ફેકલ્ટીમાં પ્રવેશ લેવા માંગે છે તે દેખાશે.

The screenshot shows the VNSGU Dashboard for a user named PARIKSHIT DILIP BODKHEY. The dashboard is divided into several sections: Application Information, Payment Instruction, Note, and SUMMARY. The Application Information section displays the following details:

APPLICANT INFORMATION	
Application Form:	ADMISSION FOR BACHELOR OF COMPUTER APPLICATION 2020-21
Applicant Name	PARIKSHIT DILIP BODKHEY
Applicant No.	AD202000334673

The SUMMARY section shows the following status:

SUMMARY	
Application Status	Application Pending
Payment Status	Payment Pending
Verification Status	Not Verified by Help Center
Verification Report	

Review your basic data and click on "SAVE AND NEXT" BUTTON. તમામ માહિતીક્રિક વક રજીસ્ટ્રેશનમાંથી મળશે.

The screenshot shows the VNSGU Dashboard for a user named PARIKSHIT DILIP BODKHEY. The dashboard is divided into several sections: Basic, Personal, Academic, Attachment, Choice, Submission, Payment, and Download. The Basic Details section displays the following information:

Last Qualifying H.S.C / S.S.C Exam Board *	GSHSEB
Exam Month / Year *	MAR 2019
Seat No *	B222222
Surname *	DAFDA
Name *	KAUSHIK
Father/Husband/Mother Name *	LALJI/BHAI
Birth Date *	11/08/1998
Email *	dsfds40@gmail.com
Mobile No *	8888582262
Alternate Mobile No	
Category *	SC
Gender *	Male
Do You Have Any Disability (PH)	None
Region of Last School *	Veer Narmed South Gujerat University Region (Except Union Territory)

A "Save and Next" button is highlighted with a red box at the bottom of the form.

ENTER your personal details as follows and click "SAVE AND NEXT" Button:

Change Password

Basic Personal Academic Attachment Choice Submission Payment Download

Personal Details

Birth Place *	Surat	
Blood Group	--Please Select--	
Caste *	DARBAR	
Religion *	HINDU	Is Minority <input type="checkbox"/>
Aadhar No		
Cast Certificate Date *	17/07/2018	
Current Address *	13	
Current City *	SURAT	
Current State *	GUJRAT	
Current Country *	INDIA	
Current Pincode *	394210	
Current PhoneNo		
Permanent Address, Same as Current address	<input checked="" type="checkbox"/>	
Permanent Address *	13	

Application Modification

Permanent Country *	India
Permanent Pincode *	395010
Permanent PhoneNo	
Emergency Contact No	
Bank Name *	SBI
Account No *	123456789
	Note: If applicable, refunded amount will be credited to this account.
IFSC Code *	abcd1234567
	Note: IFSC is 11 digit code which is mentioned on Cheque or Front Page of Bank Passbook E.g. IKL0323324
Account Holder Name *	xyz
Bank Branch Address *	surat

Save and Next

1	Birth Place (જન્મ સ્થળ દાખલ કરો.)
2	Blood Group (બ્લડ ગ્રુપ દાખલ કરો.)
3	Caste (જાતિ દાખલ કરો.)
4	Religion Minority (ધર્મ લખો., જો માઈનોરીટીમાં આવતા હોય તો બોક્ષમાં ✓કરો.)
5	Aadhar No (આધાર નંબર લખો.)
6	Current Address (હાલનું સરનામું લખો.)
7	Current City (હાલમાં રહેતા શહેરનું નામ લખો.)
8	Current State (હાલમાં રહેતા રાજ્યનું નામ લખો.)
9	Current Country (હાલમાં રહેતા દેશનું નામ લખો.)
10	Current Pincode(પીનકોડ નંબર લખો.)
11	Current Phone No (હાલનો ફોન નંબર દાખલ કરો.)
12	Permanent Address Sameas Current address(કાયમી સરનામું હાલનાં સરનામાં સાથે સરખું હોય તો બોક્ષમાં ✓કરો.)
13	Permanent Address (કાયમી સરનામું લખો.)
14	Permanent City (કાયમી વસવાટ કરતાં શહેરનું નામ લખો.)
15	Permanent State (કાયમી વસવાટ કરતાં રાજ્યનું નામ લખો.)
16	Permanent Country (કાયમી વસવાટ કરતાં દેશનું નામ લખો.)
17	Permanent Pincode(કાયમી પીનકોડ નંબર લખો.)
18	Permanent Phone No (કાયમી ફોન નંબર લખો.)
19	Emergency Contact No (આપાતકાલિન ફોન નંબર લખો.)
20	Bank Name (બેંકનું નામ લખો.)
21	Account No (ખાતાનો નંબર લખો.)
22	IFSC Code (બેંકનો આઈ.એફ.એસ.સી. કોડ લખો.)
23	Bank Branch Address (બેંકની શાખાનું નામ લખો.)
24	Click on "Save and Next" Button. નીચે દર્શાવેલ "Save and Next" બટન પર ક્લિક કરો.

Enter your academic details and at the end click on "Save and Next" Button.

(Note: FOR GHSEB MARCH 2019 OR MARCH 2020 PASS OUTS ACADEMIC DETAILS WILL BE DISPLAYED AUTOMATICALLY. OTHER THAN GHSEB CANDIDATES, WILL HAVE TO ENTER ACADEMIC DATA CAREFULLY AS PER THEIR 12TH STANDARD MARKSHEET)

1	Select your Previous Stream (છેલ્લી વિદ્યાશાખા લખો.)
2	S.S.C. SEAT NUMBER (ધોરણ - ૧૦ નો બેઠક નંબર લખો.)
3	S.S.C. MARKS (ધોરણ - ૧૦ ના માર્ક્સ લખો)
4	NO OF ATTEMPTS (H.S.C.) (ધોરણ - ૧૨ નાં પ્રયત્નોની સંખ્યા લખો.)

H.S.C. SCIENCE STREAM GROUP A MARKS

MATHEMATICS	65	/	100	=	65.0000	%
CHEMISTRY THEORY	76	/	100	=	76.0000	%
CHEMISTRY PRACTICAL	41	/	50	=	82.0000	%
PHYSICS THEORY	75	/	100	=	75.0000	%
PHYSICS PRACTICAL	40	/	50	=	80.0000	%

H.S.C. TOTAL OBTAIN MARKS DETAILS

NO. OF ATTEMPTS (H.S.C.)	1	/	400	=	74.2500	%
H.S.C. TOTAL MARKS	297	/	400	=	74.2500	%

SPORTS QUOTA

ARE YOU INTERESTED IN SPORTS QUOTA?

Save and Next

5	H.S.C. SEAT NUMBER (ધોરણ - ૧૨ નો બેઠક ક્રમાંક લખો.)
6	SCIENCE A GROUP (A GROUPનાં વિદ્યાર્થીએ બોક્ષમાં ✓ કરો.)
7	SCIENCE B GROUP (B GROUPનાં વિદ્યાર્થીએ બોક્ષમાં ✓ કરો.)
8	MARKS (ધોરણ - ૧૨ માં મેળવેલ માર્ક્સ વિષયવાર લખો.)
9	OTHER SUBJECT 1 (જો ઉપરનાં વિષયો સિવાયનાં વિષયો હોય તો બોક્ષમાં ✓ કર્યા બાદ વિષયનું નામ અને માર્ક્સ લખો.)
10	H.S.C. TOTAL MARKS (ધોરણ - ૧૨ માં મેળવેલ કુલ માર્ક્સ લખો)
11	Click on "ARE YOU INTERESTED IN SPORTS QUOTA?" for application under sports quota (if applicable).

Upload your recent passport size colour photograph. Mark Sheet & other Certificates Click on "SAVE AND NEXT".

Application Modification

- Personal Details
- Academic Details
- Attachment Details
- Choice Details
- Final Submission
- Make Payment
- Download Data

Choose File | No file chosen

Document Name	Document	Delete
S.S.C. MARKSHEET	File Choose File No file chosen	✕
H.S.C. MARKSHEET	File Choose File No file chosen	✕

Important Instructions Regarding Documents and Photo

As this photo should be printed on Marksheet, Degree Certificate & other relevant Certificates, upload recent passport size photograph. Photograph should be in jpg or jpeg format of maximum 300kb.

આ ફોટો માર્ક્સશીટ, પદવી પ્રમાણપત્ર તથા અન્ય પ્રમાણપત્રો પર પ્રિન્ટ થનાર ફોટો તજરતરનો પાસપોર્ટ ફોટો અપલોડ કરવો. ફોટો જે.પી.જી અથવા જે.પી.ઈ.જી. ફોર્મેટમાં વધુમાં વધુ ૩૦૦ કે.બી.નો હોવો જોઈએ.

Before uploading the document please check its readability.
ફાઈલ અપલોડ કરતાં પહેલાં તે વાંચી શકાય તેમ છે તેની ખાતરી કરવી.

In Case a candidate has passed 10th or 12th examination with more than one attempt, He/She shall have to generate single pdf file of all marksheets of respective standard and upload that pdf file only.
ધોરણ ૧૦ તથા ધોરણ ૧૨ માં એક કરતાં વધુ પ્રયત્નોથી પાસ થયેલા હોય તેવા કિસ્સામાં જે તે ધોરણની તમામ પ્રયત્નોની માર્ક્સશીટોની એક જ પી.ડી.એફ. ફાઈલ બનાવી પી.ડી.એફ. ફોર્મેટમાં અપલોડ કરવાની રહેશે.

Save and Next

- 1 Upload your recent passport size colour photograph, Mark Sheet & other Certificates. jpg or jpeg file of minimum 100 kb and maximum 300 kb size has to be uploaded(ઓછામાં ઓછી 100 KB તથા વધુમાં 300 KB વધુ ની સાઈઝનીjpgઅથવા jpeg ફાઈલ બનાવી માર્કશીટ તથા અન્ય પ્રમાણપત્રો અપલોડ કરવાના રહેશે.)
- 2 In case a candidate has passed 10th or 12th examination with more than one attempt he/she shall have to generate single PDF file (maximum 5 mb) of all mark sheets of respective standard and upload that PDF file only. (ધોરણ-૧૦ તથા ધોરણ-૧૨ માં એક કરતા વધુ પ્રયત્નોથી પાસ થયેલા હોય તેવા કિસ્સામાં જે તે ધોરણની તમામ પ્રયત્નોની માર્કશીટોની એક જ પી.ડી.એફ. (વધુમાં વધુ 5 એમ.બી.) ફાઈલ બનાવી પી.ડી.એફ. ફોર્મટમાં જ અપલોડ કરવાની રહેશે.

Select District for college choice selection. Click on “+” to add college choice for admission. જીલ્લા વાઈસ કોલેજની પસંદગી કરો. કોલેજની પસંદગી ઉમેરવા માટે “+” પર ક્લિક કરો

Select MINIMUM 7 colleges as per your choice.

તમારી પસંદગીની ઓછામાં ઓછી સાત કોલેજ સીલેક્ટ કરો.

Application Details

Basic Personal Academic Attachment **Choice** Submission Payment Download

Available Colleges

Select District: Surat

Select	College Name	College Type	Location	Program Name	Note
+	VIVEKANAND COLLEGE FOR ADVANCED COMPUTER & INFORMATION SCIENCE, SURAT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	
+	VIMAL TORMAL PODDAR BCA COLLEGE, PANDESARA, SURAT.	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	
+	UDHNA CITIZEN COMMERCE COLLEGE & S.P.B. COLLEGE OF BUSINESS ADMINISTRATION & SMT. DIWALIBEN HARJIVANBHAI GONDALIYA COLLEGE OF BCA & IT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	
+	SHREE UTTAR GUJARAT BCA COLLEGE, SURAT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	

Selected Colleges

Remove	Sr.No	College Name	College Type	Location	ProgramName	Note	Up	Down
-	1	SDJ INTERNATIONAL COLLEGE, VESU, SURAT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)		+	-
-	2	C.B. PATEL COMPUTER COLLEGE & JAMANABEN NARROTTAMBHAI MOTIRAM PATEL SCIENCE COLLEGE, BHARTHANA, VESU, SURAT.	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)		+	-
-	3	PROF. V.B. SHAH INSTITUTE OF MANAGEMENT & R.V. PATEL	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION		+	-

Click on “-” to remove college choice for admission.

પ્રવેશ માટે કોલેજ પસંદગીને દુર કરવા માટે “-” પર ક્લિક કરો.

Available Colleges

Select District: Surat

Select	College Name	College Type	Location	Program Name	Note
+	VIVEKANAND COLLEGE FOR ADVANCED COMPUTER & INFORMATION SCIENCE, SURAT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	
+	VIMAL TORMAL PODDAR BCA COLLEGE, PANDESARA, SURAT.	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	
+	UDHNA CITIZEN COMMERCE COLLEGE & S.P.B. COLLEGE OF BUSINESS ADMINISTRATION & SMT. DIWALIBEN HARJIVANBHAI GONDALIYA COLLEGE OF BCA & IT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	
+	SHREE UTTAR GUJARAT BCA COLLEGE, SURAT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)	

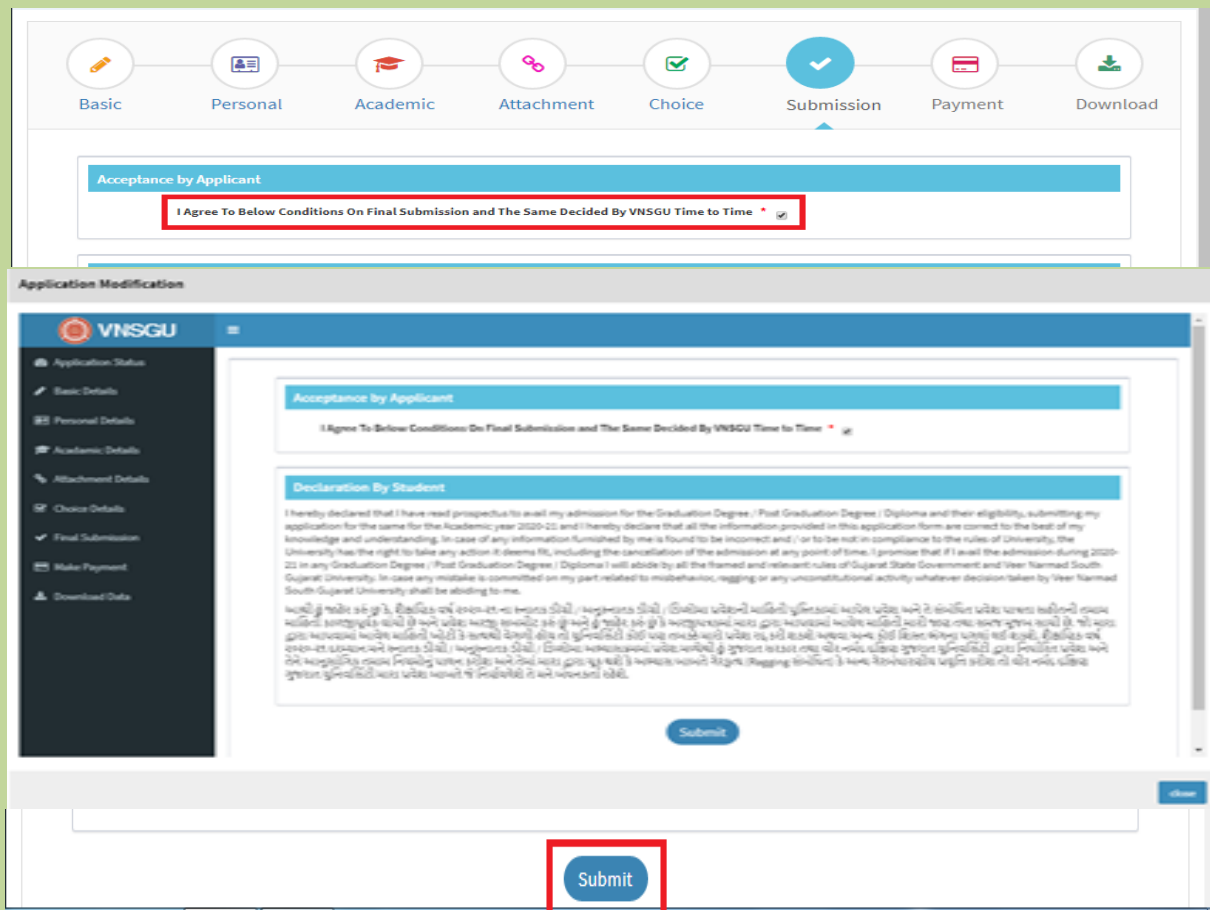
Selected Colleges

Remove	Sr.No	College Name	College Type	Location	ProgramName	Note	Up	Down
-	1	SDJ INTERNATIONAL COLLEGE, VESU, SURAT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)		+	-
-	2	C.B. PATEL COMPUTER COLLEGE & JAMANABEN NARROTTAMBHAI MOTIRAM PATEL SCIENCE COLLEGE, BHARTHANA, VESU, SURAT.	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)		+	-
-	3	PROF. V.B. SHAH INSTITUTE OF MANAGEMENT & R.V. PATEL COLLEGE OF COMMERCE (ENG. MED.), V.L. SHAH COLLEGE OF COMMERCE (GUJ. MED.), SUTEX BANK COLLEGE OF COMPUTER APPLICATION & SCIENCE, AMROLI, SURAT	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION (ALL)		+	-
-	4	AMRARA COMMERCE COLLEGE, MANIRA INSTITUTE OF	Self Finance	Surat	BACHELOR OF COMPUTER APPLICATION		+	-

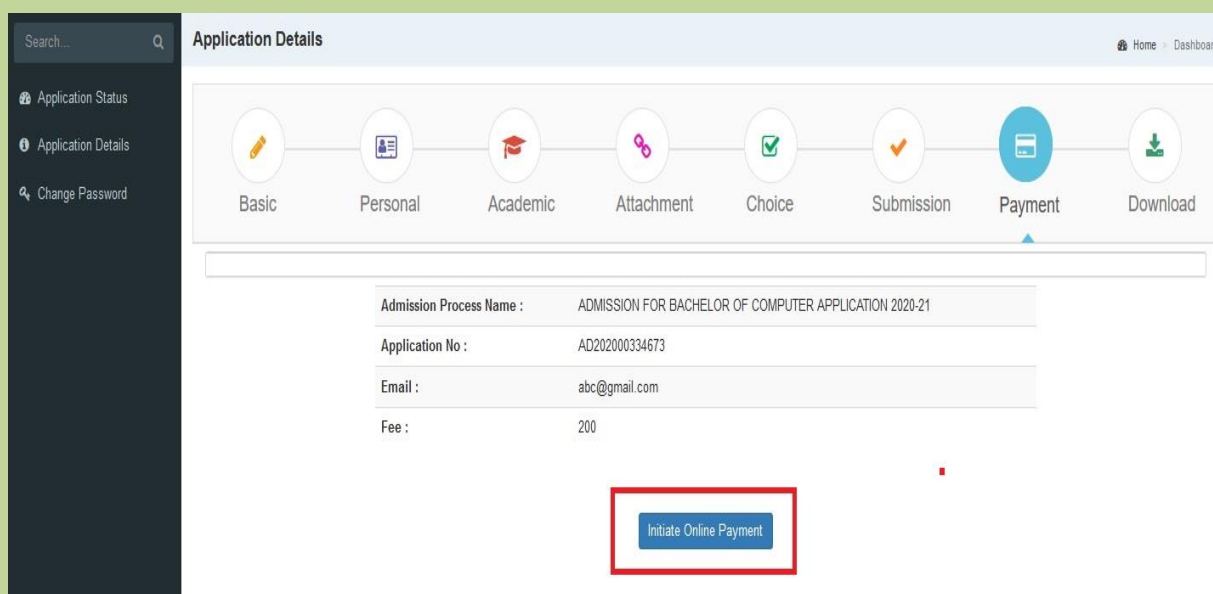
Save and Next

Review your college choices and click on "SAVE AND NEXT" button.
 તમારી કોલેજ પસંદગી ચકાસી ત્યાર બાદ "SAVE AND NEXT" પર ક્લિક કરો.

Click on "Agree to terms and condition" and Submit your application.
 "Agree to terms and condition" પર ક્લિક કરી બાદ "Submit" પર ક્લિક કરો.



Click "Initiate online payment" for paying application fees of Rs. 200/-
 એપ્લિકેશન ફી રૂા. ૨૦૦/- ભરવા માટે "Initiate online payment" પર ક્લિક કરો.



The screenshot displays the atom payment gateway interface. On the left, a vertical menu lists payment modes: Saved Card, Credit Card (selected), Debit Card, Debit Card with ATM PIN, Net Banking, and UPI. The main content area is titled 'Credit Card' and contains the following fields:

- Credit Card Number: 01 2019 CVV /
- Name On Card
- Bank Name
- Save card for future use
- Mobile Number
- Email Id

Below these fields is the 'Billing Details' section with two input fields: 88XX5XXX62 and dXfXaXOXmXiXcXm. At the bottom of the form are 'Cancel' and 'Pay Now' buttons. A disclaimer states: 'By clicking Pay Now you are agreeing to Terms & Conditions'. The right sidebar shows the 'Amount Payable' as ₹ 200.00, the merchant name 'VEER NARMAD SOUTH GUJRAT UNIVERSITY', and the 'Transaction Id : AFON190018583473'. The footer features logos for various payment methods: Verified by VISA, MasterCard SecureCode, AMERICAN EXPRESS SafeKey, VISA, Mastercard, Diners Club INTERNATIONAL, RuPay, Maestro, PCI DSS, and a logo for the year 2011.

After successful payment, PAYMENT STATUS will be changed to PAYMENT DONE.
 પેમેન્ટ સફળ થયા પછી PAYMENT STATUS બદલાઈને PAYMENT DONE થઈ જશે.

Help Line Numbers

મદદ માટેના સંપર્ક નંબરો

- 6357099831
- 6357099832
- 6357099834
- 6357099835
- 6357099836

Important Dates for Admission

પ્રવેશ પ્રક્રિયા અંગે યાદ રાખવાની તારીખો

Sr. No.	Particulars	Dates/ Fees
1	Online Application form will be available on University Website: યુનિવર્સિટી વેબસાઈટ ઉપર ઓનલાઈન પ્રવેશ ફોર્મ ભરવાની તારીખ	01-07-2020થી 15-07-2020
2	Fees for processing of application for admission (Payment shall be done through Credit Card,Debit Card or Net Banking) પ્રવેશ ફોર્મ પ્રોસેસિંગ ફી (વિદ્યાર્થીએ પોતાના ડેબિટ કાર્ડ ક્રેડિટ કાર્ડ કે નેટ બેન્કિંગ થી પ્રવેશ પત્રક પ્રોસેસિંગ ફી ભરવાની રહેશે.) પ્રવેશ ફોર્મ પ્રોસેસિંગ ફી રીફંડ કરવામાં આવશે નહિ.	200/- 01-07-2020 થી 15-07-2020
3	College wise Declaration of Provisional Merit List on University Website with instructions. કોલેજ પ્રમાણે કામચલાઉ મેરીટ યાદી યુનિવર્સિટી વેબસાઈટ ઉપર જરૂરી સૂચનાઓ સહિત પ્રસિધ્ધ કરવાની તારીખ	
4	Correction after provisional merit list પ્રોવિઝનલ મેરીટ બાદ વિદ્યાર્થીઓને ફોર્મમાં ભુલ સુધારવા માટે	
5	College wise Declaration of final Merit List on University Website with instructions. કોલેજ પ્રમાણે ફાઈનલ મેરીટ યાદી યુનિવર્સિટી વેબસાઈટ ઉપર જરૂરી સૂચનાઓ સહિત પ્રસિધ્ધ કરવાની તારીખ	આ બાબતે વેબસાઈટ પર વખોતવખત જાહેરાત કરવામાં આવશે.
6	Dates to confirm admission after publication of merit list by paying respective fees as indicated. Applicants are directed to pay fees within the time limit. મેરીટ યાદી પ્રસિધ્ધ થયા બાદ દર્શાવેલા શિડ્યુલ પ્રમાણે જે તે સમય મર્યાદામાં ફી ભરી પ્રવેશ કન્ફર્મ કરાવવાની તારીખ. સમય મર્યાદામાં ફી ભરી ન શકનાર વિદ્યાર્થીનો જે તે કોલેજનો પ્રવેશ હકક રહેશે નહિ.	

નોંધ :- વિદ્યાર્થીઓએ નિયમિત રીતે યુનિવર્સિટીની વેબસાઈટ, પોતાનું ડેશ બોર્ડ, એસ.એમ.એસ. અને ઈ-મેઈલ જોતા રહેવું અને તેમાં દર્શાવ્યા મુજબ અનુસરવું.

List of College with Sanctioned Student' Intake for the Academic Year: 2020-2021

SR. NO.	NAME OF COLLEGE	TYPE OF COLLEGE	Total Seats
1	AMBABA COMMERCE COLLEGE, MANIBA INSTITUTE OF BUSINESS MANAGEMENT & DEVIBA INSTITUTE OF COMPUTER APPLICATION, SABARGAM. PH : 8980004848 Email : -	SFI	75
2	C.B. PATEL COMPUTER COLLEGE & JAMANABEN NARROTTAMBHAI MOTIRAM PATEL SCIENCE COLLEGE, BHARTHANA (VESU), SURAT. PH : 0216-2260004 Email : info.navnirmanmandal@gmail.com	SFI	300
3	COLLEGE OF APPLIED SCIENCES AND PROFESSIONAL STUDIES, CHIKHLI. PH : 02634-233189 Email : casps@ymail.com	SFI	150
4	DOLAT USHA INSTITUTE OF APPLIED SCIENCES & DHIRU-SARLA INSTITUTE OF MANAGEMENT & COMMERCE, VALSAD. PH: 0260-6530415 Email : duias_valsad@yahoo.co.in	SFI	150
5	DOLLYBEN DESAI INSTITUTE OF COMPUTER AND ALLIED SCIENCES COLLEGE, PALSANA. PH : 0261-6569800 Email : dollybendesaiinstitute@yahoo.co.in	SFI	75
6	IQRA BCA COLLEGE, BHARUCH. PH :02646-3204306 Email : -	SFI	75
7	M.K. INSTITUTE OF COMPUTER STUDIES, BHARUCH. PH : 02646-243422 Email : mkinstitute@dataone.in	SFI	150
8	M.L. PARMAR COLLEGE OF COMPUTER SCIENCE & IT, SURAT. PH : 02643-271218 Email : info@bcamparmar.org	SFI	75
9	NARAN LALA COLLEGE OF PROFESSIONAL & APPLIED SCIENCES, NAVSARI. PH : 02637-286283 Email : naranlalacollege@gmail.com	SFI	150
10	NARMADA COLLEGE OF SCIENCE & COMMERCE, ZADESHWAR. PH : 02642-231930 Email : ncscbharuch@gmail.com	SFI	75
11	PRABHU B.C.A. COLLEGE, UMRA, SURAT. PH : 0261-2252942 Email : prabhubcacollege@gmail.com	SFI (ONLYFOR PH)	75
12	PROF. V.B. SHAH INSTITUTE OF MANAGEMENT, R.V. PATEL COLLEGE OF COMMERCE (ENG. MED.), V.L. SHAH COLLEGE OF COMMERCE (GUJ. MED.), SUTEX BANK COLLEGE OF COMPUTER APPLICATIONS & SCIENCE, AMROLI. PH : 0261-2494073,2496478 Email : info@amrolicollege.org	SFI	300
13	R.K. DESAI ACHCHHARIWALA COLLEGE OF COMPUTER & APPLIED SCIENCES, VAPI. PH :0260-2421963 Email : rkd_bca@yahoo.com	SFI	75
14	ROFEL SHRI G.M. BILAKHIA COLLEGE OF APPLIED SCIENCE, VAPI. PH : 9081285100 Email : bca@rgmbs.org	SFI	150

15	S.S. AGRAWAL COLLEGE OF COMMERCE AND MANAGEMENT, NAVSARI . PH : 02637-232667 Email : contact@agrawaleducation.net	SFI	150
16	SDJ INTERNATIONAL COLLEGE, SURAT . PH : 0261-2218175 Email : adm.sdjic@gmail.com	SFI	150
17	SHRINATHJI COLLEGE OF COMPUTER APPLICATION, NANI DAMAN . PH :0260-3204306 Email : amarjyoteducationsociety@yahoo.co.in	SFI	75
18	SHRI MANILAL KADAKIA COLLEGE OF MANAGEMENT & COMPUTER STUDIES, ANKLESHWAR . PH : 9662534664 Email : kadakiacollege@hotmail.com	SFI	75
19	SHRI SHAMBHUBHAI V. PATEL COLLEGE OF COMPUTER SCIENCE & BUSINESS MNGT. SURAT. PH : 0261-2537772 Email : svpatelcsbm.org	SFI	300
20	SHREE UTTAR GUJARAT BCA COLLEGE, SURAT . PH : 0261-2236076 Email : shreeuttargujaratcollege@gmail.com	SFI	150
21	SMT. R.P. CHAUHAN ARTS & SMT. J.K. SHAH & SHRI K.D. SHAH COMMERCE & K.R.P. DARJI INDOAMERICAL INSTITUTE OF COMPUTER SCIENCE, VYARA . PH : 02626-220185 Email : acc_vyara@yahoo.co.in		75
22	SMT. TANUBEN & DR. MANUBHAI TRIVEDI COLLEGE OF INFORMATION SCIENCE, SURAT . PH : 0261-2460995 Email : info@vidyamandirsoc.org	SFI (ONLY FOR GIRLS)	150
23	SMT. Z.S. PATEL COLLEGE OF MANAGEMENT & TECHNOLOGY, SURAT . PH : 0261-2760963 Email : zspatel_college@yahoo.co.in	SFI	150
24	THE MANDVI EDUCATION SOCIETY COLLEGE OF COMPUTER APPLICATION, MANDVI . PH : 02623-221016 Email : bca.mandvi@gmail.com	SFI	75
25	UDHNA CITIZEN COMMERCE COLLEGE & S.P.B. COLLEGE OF BUSINESS ADMINISTRATION & UDHNA ACADEMY COLLEGE OF COMPUTER APPLICATION & INFORMATION TECHNOLOGY, UDHNA . PH : 0261-2277739, 2277738 Email : uccbcc_uaet@rediffmail.com	SFI	225
26	VIDHYADEEP INSTITUTE OF COMPUTER & INFORMATION TECHNOLOGY, KIM PH : 02621-249227 Email : vidhyadeeptrust@gmail.com	SFI	75
27	VIDYABHARTI TRUST COLLEGE OF BCA, UMRAKH . PH : 02622-220581 Email : vtcbca@gmail.com	SFI	150
28	VIMAL TORMAL PODDAR BCA COLLEGE, BHEDWAD, PANDESARA , SURAT. PH : 9727711277 Email : vtpbca@gmail.com	SFI	150

29	VIVEKANAND COLLEGE FOR ADVANCED COMPUTER & INFORMATION SCIENCE, SURAT . PH : 7043365488 Email : vivekanandsgu@yahoo.in	SFI	225
30	V.S. PATEL COLLEGE OF ARTS & SCIENCE (BCA COURSE), BILIMORA . PH : 02634-289012 Email : bca_bilimora@yahoo.co.in	SFI	75
31	Government Science College (BCA COURSE), Valod . PH : 02637-232667 Email: gscv394640@gmai..com	SFI	75

Veer Narmad South Gujarat University, Surat
Bachelor of Computer Application (B.C.A.)

Under the Faculty of Computer Science, Application and Information Technology

Name of Program:	Bachelor of Computer Application
Abbreviation:	B.C.A.
Duration:	3 Years (Regular)
Eligibility:	Candidate must have passed standard 12th (H.S.C.) Examination in Science (Any Group) / Commerce / vocational / General stream through Gujarat Higher Secondary Board (G.H.S.E.B.) or any other equivalent board (C.B.S.E. / I.C.S.E. etc. which must be approved and possess equivalence certificate from Veer Narmad South Gujarat University) with English as one of the subject. In case of candidates passed out from 12th (H.S.C.) General Stream, Statistics/Economics/Business Mathematics must be one of the subjects. In case of Students passed out with 12th (H.S.C.) vocational stream, Computer and English must be one of the subject.
Objective of the Program:	Objective of the program is to open a channel of admission for courses in Computer Science for students who have completed standard 12th (H.S.C.) and are interested in taking computing/IT as a career. The program caters to the needs of the students aspiring to excel in the field of computer science. The program is designed to develop computer professionals versatile in almost all field of computer application. The main emphasis of the course is an applied computer use in various fields.
Program Outcome:	It will prepare the aspiring students to become computer programmers who can work in companies at entry level and can also work independently.
Medium of Instruction:	English
Program Structure:	Semester-wise Breakup of the course is given as follows :

Program Structure: F.Y.B.C.A. (SEM – 1 and SEM – 2)
(w.e.f. Academic Year June, 2020 – 2021)

Course Code	Title	Teaching Per Week (Credit/Hours)		Course Credits	University Examination		Internal Marks	Total Marks
		Theory	Practical		Duration	Marks		
101	Communication Skills	2	0	02	3 Hours	70	30	100
102	Mathematics	3	0	03	3 Hours	70	30	100
103	Introduction to Computers	4	0	04	3 Hours	70	30	100
104	Computer Programming & Programming Methodology (CPPM)	4	0	04	3 Hours	70	30	100
105	Data Manipulation and Analysis	4	0	04	3 Hours	70	30	100
106	Practical	-	12	06	5 Hours	140	60	200
	Foundation Elective (to be selected from NCC / NSS / Saptadhara)	0	0	02				
Total				25		490	210	700

Course Code	Title	Teaching Per Week (Credit/Hours)		Course Credits	University Examination		Internal Marks	Total Marks
		Theory Hours	Practical Hours		Duration	Marks		
201 – 1 201 - 2	Organizational Structure & Behavior Introduction to Internet & HTML	2	0	2	3 Hours	70	30	100
202 - 1 202 - 2	Computerized Financial Accounting Emerging Trends and Information Technology	3	0	3	3 Hours	70	30	100
203	Operating System - I	4	0	4	3 Hours	70	30	100
204	Programing Skills	4	0	4	3 Hours	70	30	100
205	Concepts of Relational Database Management System	4	0	4	3 Hours	70	30	100
206	Practical	0	12	06	5 Hours	140	60	200

	Foundation Elective (to be selected from NCC / NSS / Saptadhara)	0	0	02				
Total				25		490	210	700
<p>For Practical: (Batch Size –30 Maximum) : 1.In case of more than 10 students in a batch, separate batch should be considered.2.The journal should be certified by the concerned faculty and also by the Head of the Department, failing which the student should not be allowed to appear for the External Practical Examination.</p> <p>Programming passing rules:As per University rules.</p>								

Consolidated Course Papers for F.Y.B.C.A. (SEM - I & SEM – II)

Academic Year of Implementation: 2020-2021

Course 101: Communication Skills

Course Code	101
Course Title	Communication Skills
Credit	2
Nature of Subject:	Theory Only
Teaching per Week	2 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2020
Purpose of Course	Effective communication is vital for the success in various situations. This course will help students develop and improve English Communication skills.
Course Objective	The objective of this course is to guide/help students in improving their English communication skills.
Pre-requisite	Basic School English
Course Out come	After studying this subject, students will be able to improve their communication skills in English.
Course Content	<p>Unit 1. Introduction</p> <ol style="list-style-type: none">1.1. Spoken and conversation for Greetings, Requests, Invitation, Permission, Thanks etc.1.2. Basic Sentence patterns1.3. Basic rule of Composition1.4. Vocabulary Development1.5. Paragraph Development <p>Unit 2. Fundamentals of Grammar</p> <ol style="list-style-type: none">2.1. Agreement between Subject and Verb2.2. Model Auxiliary2.3. Active and Passive voice2.4. Conjunction and prepositions <p>Unit 3. Writing Skills</p> <ol style="list-style-type: none">3.1. Guidelines for effective writing3.2. Writing style of application3.3. Personal Resume <p>Unit 4. Business Letter and Report Writing Skills</p> <ol style="list-style-type: none">4.1. Business letter and Memo including Requests, Complaints, Quotation etc.4.2. Technical Report writing <p>Unit 5. Speaking and Discussion Skills</p> <ol style="list-style-type: none">5.1. Components of Effective talk / presentation5.2. Planning of content of a talk / presentation5.3. Use of Visual aids5.4. Effective speaking skills5.5. Discussion skills

Reference Books	1.Handbook of practical Communication skills – Chrisle W. JAICO 2.Basic Managerial Skills for all – S. J. McGrath - PHI 3.Reading to learn – Sheila Smith & Thomas M. Methuen (London) 4.Communication conversation Practice _ Tata McGraw Hill 5. Communication in English – R. P. Bhatnagar& R. T. Bell – Orient Longman 6. Good English – G. H. Vallins – Rups& Co.
	7. Let’s talk English – M. I. Joshi 8. Essentials of Business Communications – Pat & Sons, S. Chand
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	30% Internal assessment. 70% External assessment.

Course 102: Mathematics

Course Code	102
Course Title	Mathematics
Credit	3
Teaching per Week	3 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2020
Purpose of Course	Purpose of this course is to develop mathematical abilities relevant to Computer Science.
Course Objective	The objective of this course is to guide/help students in developing Mathematical Abilities relevant to Computer Science.
Pre-requisite	School Mathematics
Course Out come	After studying this subject, students will be able to develop Mathematical Abilities relevant to Computer Science.
Course Content	<p>Unit 1. Set Theory</p> <ul style="list-style-type: none"> 1.1.Introduction 1.2.Representation 1.3.Operation and its properties 1.4.Venn Diagram 1.5.Cartesian product and graph <p>Unit 2. Functions</p> <ul style="list-style-type: none"> 2.1.Definition 2.2.Types – Domain and Range 2.3.Construction and functions <p>Unit 3. Mathematical Logic</p> <ul style="list-style-type: none"> 3.1.Introduction to logic 3.2.Truth Table <p>Unit 4. Boolean Algebra</p> <ul style="list-style-type: none"> 4.1Definition & Examples of Boolean Algebra 4.2Boolean Functions 4.3Representation and minimization of Boolean Functions 4.4Design example using Boolean algebra <p>Unit 5. Matrices and Determinants</p> <ul style="list-style-type: none"> 5.1.Matrices of order $M * N$ 5.2.Row and Column transformation 5.3.Addition, Subtraction and multiplication of Matrices 5.4.Computation of Inverse 5.5.Cramer’s Rule 5.6.Business Application of Matrices

Reference Books	<ol style="list-style-type: none"> 1. Co-ordinate Geometry – Shanti Narayan 2. Linear Algebra – Sushoma Verma 3. Advanced Mathematics – B.S. Shah & Co. 4. Schaum’s Outline of Boolean algebra and switching circuits – Elliot Mendelson 5. Digital Computer Fundamentals - Tata McGraw Hill, 6th Edition, Thomas C. Bartee 6. Business Mathematics - Qazi Zameeruddin, V. K. Khanna and S. K. Bhambri, Vikas Publishing House Pvt. Ltd.
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	<p>30% Internal assessment.</p> <p>70% External assessment.</p>

Paper – 103 (Introduction to Computers)

Course Code:	103
Course Title:	Introduction to Computers
Total Credits :	4 Credits
Nature of Subject :	Theory only
Teaching per Week:	4 Hours per week per Semester
Minimum weeks per Semester:	15 weeks (Including class work, examination, preparation etc.)
Review/Revision Year:	June, 2020
Purpose of Course :	<ul style="list-style-type: none"> - Concepts and types of computer and various hardware technologies relevant to computer as well as some important peripherals will be covered. - Introduction of computer internal memories, number systems and conversions from decimal to binary. - Exposure of various input and output devices as well as concepts of Internet and relevant gadgets and their applications.
Objective :	Objective is to provide knowledge of functional units, number System, Devices and memory & its storage.
Pre-requisite:	Fundamental Knowledge of Computers
Course Outcome :	After studying this subject, students will get knowledge of functional units, number System, devices and memory & its storage.
Course Content:	<p><u>UNIT-1: Introduction</u></p> <p>1.1 Introduction of Computer 1.2 Applications of Computer 1.3 Types of Computers – Super Computers, Mainframes, Mini Computers, Micro computers(Desktop, Laptop, Notebook, Tablet, Smart Phones) 1.4 Block Diagram and functional units of computer</p> <p><u>UNIT-2:Basic Computer Architecture</u></p> <p>2.1 Concepts of Address Bus and Data Bus 2.2 Concept of virtual memory and cache memory 2.3. Hardware Components 2.3.1. Motherboard 2.3.2. Types of Processor (CPU and GPU) 2.3.3. Understanding processor speed 2.3.4. Memory – RAM(SRAM,DRAM, SDRAM), ROM, EPROM, EEPROM 2.3.5. Storage Devices – Hard Disk, CD, DVD, USB flash memory 2.4. Introduction to Software 2.4.1. Purpose and significance of Operating System 2.4.2. Concept of System Software and Application Software</p>

	<p>UNIT-3: Number System</p> <p>3.1. Introduction of Decimal, Binary, Octal and Hexadecimal number Systems.</p> <p>3.2 Conversion of Decimal to Binary and Binary to Decimal</p> <p>3.3 Binary addition & subtraction</p> <p>3.4 ASCII and ANSI character code</p> <p>Unit – 4: Input & Output Devices</p> <p>4.1. Introduction of Input Devices</p> <p>4.1.1. Pointing Devices – Mouse, Trackball, Joystick, Touch Screen, Light Pen</p> <p>4.1.2. Keyboard</p> <p>4.1.3. RFID concepts and application in FastTag</p> <p>4.2. Introduction and purpose of Scanning Devices</p> <p>4.2.1. Optical Scanner</p> <p>4.2.2. Bar Code Reader</p> <p>4.2.3. Web Camera</p> <p>4.3. Introduction and comparisons of Output Devices</p> <p>4.3.1. Monitors – LED, LCD, TFT, OLED, TouchScreen Monitor</p> <p>4.3.2. Printers – Dot Matrix Printer, Laser Printer, Inkjet Printer</p> <p>Unit - 5: Concepts of Internet</p> <p>5.1. Concepts of Internet and WWW</p> <p>5.1.1 Types of Internet Services</p> <p>5.1.2 Hardware – Modem, Router, Blue tooth, Fire-Stick</p> <p>5.1.3 Internet connections using Hotspot, WiFi, cable</p> <p>5.2 Introduction of Cloud</p> <p>5.2.1 Concepts of cloud</p> <p>5.2.2 Purpose and application of Cloud (Example of GoogleDoc)</p> <p>5.2.3 Concepts of Online Data Backup</p> <p>5.3 Introduction of Web Browser and relevant terminologies :</p> <p>5.3.1 URL, Address bar, Domain, Links, Navigation Buttons</p> <p>5.3.2 Tabbed browsing, Bookmarks, History</p>
Reference Books:	<ol style="list-style-type: none"> 1. How computer work: Ron White – Tech media 2. Introduction to computers: 4th Edition – Peter Norton 3. Fundamentals of Computers: V. Rajaraman 4. Computer Fundamentals: Pradeep K. Sinha & Priti Sinha (BPB) 5. Introduction to Networking Rechar McMohan Tata McGraw Hill Publication 6. HTML Black Book – Steven Holzner – Dreamtech Press 7. Computer Network Fundamentals and application – R S Rajesh Vikas Publication 8. HTML for the World Wide Web, Fifth Edition, with XHTML and CSS- Peachpit Press
Teaching Methodology:	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method:	30% internal assessment. 70% External assessment

Paper – 104 Computer Programming & Programming Methodology

(CPPM)

Course Code:	104
Course Title:	Computer Programming & Programming Methodology (CPPM)
Total Credits :	4 Credits
Nature of Subject :	Theory and Practical application
Teaching per Week:	4 Hours per week per Semester
Minimum weeks per Semester:	15 weeks (Including class work, examination, preparation etc.)
Review/Revision Year:	June, 2020
Purpose of Course :	<ul style="list-style-type: none"> - Computer programming (often shortened to programming) is a process that leads from an original formulation of a computing problem to executable computer programs. - Programming involves activities such as analysis, developing, understanding, generating algorithms, verification of requirements of algorithms including their correctness, and implementation (commonly referred to as coding) of algorithms in a target programming language. - Students pursuing their Graduation program will encounter their first programming language which is one of the pioneer computer programming languages. - Purpose of the course is to emphasis on concepts of Compiler based programming language, structure of code, algorithms, flow-charts, problem solving attitude, concepts of variables and declaration mechanism of different datatypes, simple I/O statements, conditional statements, loops, compound iterations, strings and certain inbuilt functions, header files, concepts of arrays and one dimensional numeric array operations, numeric inbuilt functions and concepts of pointers.
Objective :	Object of this course is to introduce students the essentials of computer Programming and programming methodology using C language.
Pre-requisite:	None
Course Outcome :	<ul style="list-style-type: none"> - Students will be able to formulate a computing problem to executable computer program using C language. - Understand about compiler based programming languages. - Concepts of variables, literals, data types, conversions of data types, input and output data and processing of data, inbuilt functions, arrays, header files, conditional and iterative statements.
Course Content:	<p>UNIT-1: Introduction</p> <p>1.1 Concepts of Programming Language</p> <p style="padding-left: 20px;">1.1.1 Introduction of Source Code, Object Code and executable code</p> <p style="padding-left: 20px;">1.1.2 Algorithm and Flowchart</p> <p style="padding-left: 20px;">1.1.3 Concepts of Structured Programming Language</p> <p>1.2 Concepts of Editor, Interpreter and Compiler</p> <p style="padding-left: 20px;">1.2.1 Introduction of C program body structure</p> <p style="padding-left: 20px;">1.2.2 Character Set, concepts of variables and constants</p> <p style="padding-left: 20px;">1.2.3 Identifiers, literals, Keywords</p> <p style="padding-left: 20px;">1.2.4 Data types (signed and unsigned) (Numeric :int, short int, long, float, double) , (Character type: char, string) and void.</p> <p style="padding-left: 20px;">1.2.5 Concepts of source code, object code and executable code.</p> <p>UNIT-2: Input/Output Statements and Operators:</p> <p>2.1 Input/Output statements:</p> <p style="padding-left: 20px;">2.1.1 Concepts of Header files (STDIO, CONIO)</p> <p style="padding-left: 40px;">2.1.1.1 Concepts of pre-compiler directives.</p>

	<p>2.1.1.2 Use of #include and#define</p> <p>2.2 Input/OutputStatements:</p> <p>2.2.1 Input statements : scanf(), getch(), getch(), gets(),getchar()</p> <p>2.2.2 Output Statements: printf(), putc(),puts(),putchar()</p> <p>2.2.3 Type specifiers (formatting strings) : %d, %ld, %f, %c, %s,%lf</p> <p>2.3 Operators:</p> <p>2.3.1 Arithmetic operators (+, -, *, /, %, ++, --,)</p> <p>2.3.2 Logical Operators (&&, , !)</p> <p>2.3.3 Relational Operators (>, <, ==, >=, <=, !=)</p> <p>2.3.4 Bit-wise operators (&, , ^, <<, >>)</p> <p>2.3.5 Assignment operators (=, +=, -=, *=, /=,%=)</p> <p>2.3.6 Ternary Operator and use of sizeof() function.</p> <p>2.4 Important Built-in functions:</p> <p>2.4.1 Use of <string.h> : (strlen, strcmp, strcpy, strcat,strrev)</p> <p>2.4.2 Use of <math.h> : (abs(), floor(), round(), ceil(), sqrt(), exp(), log(), sin(), cos(), tan(), pow() andtrunc())</p> <p>UNIT-3:Decision Making statements :</p> <p>3.1 if statements:</p> <p>3.1.1 simple if statements</p> <p>3.1.2 if...elsestatements</p> <p>3.1.3 if...else if...elsestatements</p> <p>3.1.4 Nested ifstatements.</p> <p>3.2 Switch..casestatements</p> <p>3.2.1 Use of break anddefault</p> <p>3.2.2 Difference between switch and ifstatements.</p> <p>UNIT-4: Iterative statements :</p> <p>4.1 Use of goto statement foriteration</p> <p>4.2 whileloop</p> <p>4.3 do..while loop</p> <p>4.4 forloop</p> <p>4.5 Nested while, do..while and forloops</p> <p>4.6 Jumping statement: (break andcontinue)</p> <p>UNIT-5: Concepts of Arrays and pointer</p> <p>5.1 Concepts of Single-dimensionalArray</p> <p>5.1.1 Numeric single dimensionalArray</p> <p>5.1.2 Numeric single dimensional arrayoperations:</p> <p>5.1.2.1 Sorting array in ascending or descending. (Bubble andselection)</p> <p>5.1.2.2 Searching element from array (LinearSearch)</p> <p>5.1.3 Character Single dimensional Array</p> <p>5.1.3.1 Character Single dimensional array operations:</p> <p>5.1.3.2 Use of \0, \n and \t</p> <p>5.2 Pointers:</p> <p>5.2.1 Concepts ofPointers</p> <p>5.2.2 Declaring and initializing int, float, char and voidpointers</p> <p>5.2.3 Pointer to single dimensional numericarray.</p>
<p>Reference Books:</p>	<p>1. Programming in C, Balaguruswami –TMH</p> <p>2. C: How to Program, Deitel&Deitel -PHI</p> <p>3. C Programming Language, Kernigham& Ritchie -TMH</p> <p>4. Programming in C, Stephan Kochan -CBS</p> <p>5. Mastering Turbo C, Kelly &Bootle -BPB</p> <p>6. C Language Programming – Byron Gottfried -TMH</p>

	7. Let us C, YashwantKanetkar - BPBPublication 8. Magnifying C, Arpita Gopal -PHI 9. Problem Solving with C, Somashekara -PHI 10. Programming in C, PradipDey&Manas Ghosh –Oxford
Teaching Methodology:	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method:	30% internal assessment. 70% External assessment

Course 105: Data Manipulation and Analysis (DMA)

Course Code:	105
Course Title:	Data Manipulation and Analysis
Credit:	4
Nature of Subject:	Theory and Practical Application
Teaching per Week	4 Hours
Minimum weeks per Semester:	15 (Including Class work, examination, preparation etc.)
Review / Revision:	June, 2020
Purpose of Course:	Understand concepts of Data and storage of data. This course is aimed to impart knowledge about storing data, concepts of database, retrieval of data and manipulation of data. It is aimed to cover effective storage of data, statistical analysis of data and graphical presentation of data. It also covers concepts of database and fundamental of query languages to insert, access, and manipulate data. This course is not spreadsheet or database specific.
Course Objective:	i) Concepts of data, data storage and statistical manipulation of data. ii) Introduction of spreadsheet and data manipulation using spreadsheet. iii) Concepts of database, storage and manipulation of data using query language.
Pre-requisite:	Concepts of data.
Course Outcome:	Students will be proficiently working on data manipulation using spreadsheet, fundamentals of database and handling database using query language using SQL.
Course Content:	<p>UNIT-1: Concepts of worksheet: (Max.Weightage: 15%)</p> <p>1.1 Fundamentals of Worksheet:</p> <p>1.1.1 Concepts of workbook, adding worksheet, cell address, formula bar, column, rows, cells, Insert, delete, format cells , cell size (row-height, column weight), rename sheet, protect sheet, lock cell.</p> <p>1.1.2 Cut, copy, paste, paste special, format painter, font size, font face, fill color, font color, font alignment</p> <p>1.2 Alignment, indent, Number format, percent style, coma style, increase/decrease decimal</p> <p>1.2.1 Insert picture, shapes</p> <p>1.2.2 Insert Textbox, Header & Footer, Symbols</p> <p>1.2.3 Save, save as, save file as csv, spell check, protect sheet and Workbook, Linking spread sheets.</p> <p>1.2.4 Print, Quick print, Print preview</p> <p>1.2.5 Split, Hide and freeze panes in worksheet.</p> <p>UNIT-2: Formulas, Chart and Data: (Max.Weightage: 15%)</p> <p>2.1 Charts :</p> <p>2.1.1 Creating 2D and 3D charts (Columns, Line, Pie, Bar, Scatter)</p> <p>2.1.2 Difference among columns, Line and bar charts.</p> <p>2.2 Formulas:</p> <p>2.2.1 sum, average, count, max, min, sumif, pmt, stddev</p> <p>2.2.2 Logical (if, AND, OR, NOT, TRUE, FALSE)</p> <p>2.2.3 Date and Day function : Date, day, time, now, Hour, Minute, Second, Month, Days360, weekday</p> <p>2.3 Data :</p> <p>2.3.1 Sort Data, Filter Data</p> <p>2.3.2 Text to columns, Remove Duplication</p> <p>2.3.3 Consolidated Data (sum, count, max, min, average)</p> <p>UNIT-3: Concepts of Database: (Max.Weightage: 25%)</p> <p>3.1 Database characteristics:</p> <p>3.1.1 Data Independence (Logical and Physical)</p> <p>3.1.2 Components of Database (User, Application , DBMS, Database)</p> <p>3.1.3 Database Architecture (1-tier, 2-tier, 3-tier)</p>

- 3.1.3.1 Comparison, advantages and disadvantages.
- 3.2 Database Models (Hierarchical, Network, E/R, Relational)
 - 3.2.1 E/R model : Entity, Relationship, Attribute
 - 3.2.2 E/R Diagram : One to one, one to many , many to one, many to many
 - 3.2.3 Strong entity, weak entity
 - 3.2.4 key attribute, derived attribute, Multi-valued attribute
- 3.3 Types of keys :
 - 3.3.1 Super key, candidate key, Primary key, Composite key, Foreign key, Unique key.

UNIT-4: Normalization and Concepts of SQL: (Max.Weightage: 25%)

- 4.1 Why normalization (Insertion, Updating, Deletion anomalies)
- 4.2 Normalization Rules:
 - 4.2.1 Concepts of Dependency, Transitive Dependency
 - 4.2.2 Armstrong Axioms
 - 4.2.3 1st Normal Form, 2nd Normal Form, 3rdNormal Form, B.C.N.F.
- 4.3 Concepts of Structure Query Language (SQL)
 - 4.3.1 SQL datatypes : int, float, double, char, varchar, number, varchar2, Text, date
- 4.4 DDL Statements :
 - 4.4.1 Create , Drop, Truncate, Rename, Alter
- 4.5 DML and DQL(Data Query Language) Statements :
 - 4.5.1 Insert, Update, Delete
 - 4.5.2 select

UNIT-5: Queries (Single Table only) (Max.Weightage: 20%)

- 5.1 Using where clause and operators with where clause:
 - 5.1.1 In, between , like, not in, =, !=, >, <, >=, <=, wildcard operators
 - 5.1.2 Order by, Group by, Distinct
 - 5.1.3 AND, OR operators, Exists and not Exists
 - 5.1.4 Use of Alias
- 5.2 Constraints (Table level and Attribute Level)
 - 5.2.1 NOT NULL, CHECK, DEFAULT
 - 5.2.2 UNIQUE, Primary Key, Foreign Key
 - 5.2.3 On Delete Cascade
- 5.3 SQL Functions :
 - 5.3.1 Aggregate Functions: avg(), max(), min(), sum(), count(), first(), last().
 - 5.3.2 Scalar Functions: ucase(), lcase(), round(), mid().
- 5.4 Creating sequence
- 5.5 Views :
 - 5.5.1 Creating simple view, updating view, dropping view.
 - 5.5.2 Difference between View and Table.

References :

1. OpenOffice.org For Dummies - GurdyLeete, Ellen Finkelstein, Mary Leete - Wiley Pub.
2. Beginning OpenOffice 3: From Novice to Professional - Andy Channellle - Apress Pub.
3. The OpenOffice.org 2 Guidebook - SolveigHaugland
4. Taming Apache OpenOffice: Getting Started - Jean Hollis Weber - Friends of OpenDocument Inc.
5. Open Office Basic: An Introduction - James Steinberg - Gold Turtle Pub.
6. Database System Concepts: – Henry F. Korth&AbrahamSilberschatz – McGraw Hill Education
7. Introduction to Database Management System– Bipin C. Desai – Galgotia Publication
8. Principles of database systems – Jeffery Ullman – Galgotia Publication
9. An introduction to Database Systems – C. J. Date – Addison Wesley

	<ul style="list-style-type: none"> 10. Introduction to database Management – Navin Prakash -TMH 11. Learn Open Office 3.1 Base – AZIMUTH 12. OpenOffice 3.4 Volume III: Base-Christopher N. Cain, Riley W. Walker-Quantum Scientific Publishing 13. Discovering SQL-A Hands-on Guide for Beginner-Alex KriegelWrox Publication 14. A Conceptual Guide to OpenOffice.org 3-R. Gabriel Gurley (Free E-book)
Teaching Methodology:	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method:	30% Internal assessment. 70% External assessment.

Course-106: Practical

Course Code:	106
Course Title:	Practical
Total Credits :	06 Credits
Nature of Subject :	Practical only
Teaching per Week:	12 Hours per week per Semester
Minimum weeks per Semester:	15 weeks (Including class work, examination, preparation etc.)
Review/Revision Year:	June, 2020
Purpose of Course :	<ul style="list-style-type: none"> - Practical implementation of technologies covered as part of syllabus using required software and learning application areas. - Understanding and learning programming concepts, data types and variables using c programming language. - Learning concepts of compiler based programming language and its conditional and iteration structures. - Understanding use and application areas of spread-sheet. Storing and presenting data using charts, use of formulas and formatting data. - Understanding concepts of data and database. - Accessing, storing and controlling data using query language. (Only single table queries).
Objective :	Objective of this course is to introduce essentials of computer programming language, introduction of compiler based programming language, concepts of data and representation of data , use of query languages and storing and accessing data using query languages.
Pre-requisite:	None
Course Outcome :	<ul style="list-style-type: none"> - At the end of this course, students will have hands on experience of writing and applying codes using compiler based programming language. Students will understand structure of program, concepts of compiling and executing codes using variables, in-built functions, header files and control structures. - Students will have edge over concepts of work-sheets, storage of data, types of data, handling, manipulating and representing data using formulas and charts. - Students will be able to understand concepts of database and storage of data in structured way as well accessing and manipulation of data using structured query language.
Course Content:	<ol style="list-style-type: none"> 1. Creating and performing tasks based on unit 1 and 2 of Course-Paper-105. 2. Practical implementation of SQL based on Unit-3, Unit-4, Unit-5 of Course-Paper-105. 3. Practical implementation based on Course-Paper-104.
Teaching Methodology:	<ul style="list-style-type: none"> - Practical work - Lab sessions and hands on experience, Discussion, Self-Study - Students will create word document containing SQL based work including tables and queries and represent their work using presentation software at end of the semester.
Evaluation Method:	<p>30% Internal assessment. 70% External assessment.</p> <p>[For Internal and External Examination Suggested distribution of question weight will be :50% - based on Course-paper-104 , 15% - based on Unit-1 & Unit-2 of Course-paper-105 and 35% - based on Unit-3, Unit-4 and Unit-5 of Course-paper-105.)</p>

Course 201-1 : Organization Structure & Behaviour

Course Code	201-1 (Elective Paper – 1)
Course Title	Organization Structure & Behaviour
Credit	2
Teaching per Week	2 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2020
Purpose of Course	Computer Science professionals work at different levels in the hierarchy of various jobs in IT. So it is essential to understand the Organization Structure and behaviour.
Course Objective	The objective of this course is to make students aware about the Structure of an Organization and also provide them teaching that leads to better understanding of human behaviour in an organization.
Pre-requisite	Basic Communication Skills
Course Out come	After completion of the course the student will be aware about the Structure of an Organization and also will have better understanding of human behaviour in an organization.
Course Content	<p>Unit 1. Introduction to Organization and Management</p> <p>1.1.What makes an organization 1.2.Structure of organization 1.3.What is Management 1.4.Scope of Management 1.5.Role of Management 1.6.Manager’s Role (Interpersonal Role, Information Role and Decisional Role) 1.7.Managerial Skills (Technical Skills, Human Skills, Conceptual Skills)</p> <p>Unit 2. Attitude</p> <p>2.1.Meaning of Attitudes 2.2.Characteristics of Attitudes</p> <p>Unit 3. Motivation</p> <p>3.1.What is motivation? 3.2.Nature and Characteristics of Motivation 3.3.Importance & Benefits of Motivation</p> <p>Unit 4. Leadership</p> <p>4.1.What is Leadership? 4.2.Characteristics of Leadership 4.3.Leadership Styles 4.4.Leadership Skills (Technical Skills, Conceptual Skills, Personal Skills)</p> <p>Unit 5. BPO & Call Centre</p> <p>5.1. What is B.P.O? 5.2.What is out-sourcing? Benefits of outsourcing 5.3.What is Call Centre? 5.4.Call Centre setup & functions</p>

Reference Book	<ol style="list-style-type: none"> 1. Management & Organization Development – By Ahmed AbodRachnaPrakashan, New Delhi 2. Organization Behaviour – By Aplewhite Philip, Prentice hall 3. Management & Organization Development – By Argyris Chris, McGraw Hill 4. Human Behaviour at work – By Davis Keeth, Tata McGraw Hill 5. Organization Behaviour – By L. M. Prasad. 6. Principles and Practices of Management – By L. M. Prasad. 7. Managing People at work – By Harris O Jeff, John Wiley & Sons Publication 8. Call Centres – By S. Pankaj (APII Publication)
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	<p>30% Internal assessment.</p> <p>70% External assessment.</p>

Course: 201-2 - Introduction to Internet & HTML

Course Code:	201 – 2 (Elective Paper - II)
Course Title:	Introduction to Internet & HTML
Total Credits :	2 Credits
Nature of Subject :	Theory only
Teaching per Week:	2 Hours per week per Semester
Minimum weeks per Semester:	15 weeks (Including class work, examination, preparation etc.)
Review/Revision Year:	June, 2020
Purpose of Course :	<ul style="list-style-type: none"> - Internet is the global System of interconnected Computer Networks to interconnect with each device. - Internet involves functionalities and facilities such as Global Communication, Global Information Sharing, World Wide Services, understating of how it works and established to work on with is become essential to study. - The Study of securing Internet is become essential to make secure connections and securing private and confidential Data over the Network. - The technology used to create website which is platform for any users to interact with the Internet is also needed to learn.
Objective :	Objective of this course is to introduce essentials of Internet, www, HTML Language and related terminologies used to create website.
Pre-requisite:	None
Course Outcome :	<ul style="list-style-type: none"> - Students will be able to understand concept of Internet and WWW - Understand about Connections Establishment to make use of Internet. - Students will be able to understand fundamentals of developing website using HTML Technology.
Course Content:	<p><u>UNIT-1:</u>Introduction to Internet</p> <p>1.1 Concepts of Internet</p> <p>1.1.1 Introduction to Internet</p> <p>1.1.2 Evolution of Internet</p> <p>1.1.3 Internet Services</p> <p>1.1.4 Advantages and Disadvantages of Internet</p> <p>1.2 Internet Connections</p> <p>1.2.1 Types of Internet connection (Dial-up Connection, Leased Connection, Broadband Connection, Wi-Fi, Mobile Broadband, Mobile Hotspot, Cable Model Connection)</p> <p>1.2.2 Working of Internet</p> <p>1.2.3 Difference between Internet, Intranet, Extranet</p> <p><u>UNIT-2: World Wide Web</u></p> <p>2.1 Introduction to WWW</p> <p>2.2 WWW Architecture</p> <p>2.3 Introduction to Internet Protocols (TCP,IP, UDP, FTP, HTTP, (Only Introduction and their purpose))</p> <p>2.4 ISP (Internet Service Provider)</p> <p>2.5 Applications of Internet</p> <p>2.5.1 Search Engine, Web Server, News Group</p> <p>2.5.2 E-mail, E-Learning, E-Banking, E-Governance</p> <p>2.5.3 Social Networking, Instant Massaging, IRC, Audio and Video Conferencing</p> <p><u>UNIT-3:Internet Security and Privacy</u></p> <p>3.1 Internet Security Overview</p>

	<p>3.2 Data Encryption</p> <p>3.2.1 Symmetric Key Encryption</p> <p>3.2.2 Public Key Encryption</p> <p>3.3 Concepts of Digital Signature</p> <p>3.4 Concepts about Firewall Security</p> <p>UNIT-4:HTML & Structure Web Page</p> <p>4.1 Introduction to HTML</p> <p>4.1.1 HTML introduction</p> <p>4.1.2 Structure of HTML page</p> <p>4.1.3 HTML Comments</p> <p>4.2 HTML Elements (<h1>...<h6>, <p>,
, <a>,)</p> <p>4.3 HTML Attributes (alt, href, src, width, height, style, title, id)</p> <p>4.4 HTML Headings (<head>)</p> <p>4.5 Text Formatting Tags(, ,<i>,,<mark>,<small>,,<ins>,<sub>,<sup>)</p> <p>UNIT-5: Structuring Web Page using HTML</p> <p>5.1 Tables</p> <p>5.1.1 Table height and width</p> <p>5.1.2 Table Caption</p> <p>5.1.3 Cell padding and Cell Spacing</p> <p>5.1.4 Column Span Row Span</p> <p>5.2 Links and bookmarks</p> <p>5.3 Forms</p> <p>5.3.1 Form Attributes</p> <p>5.3.2 Form Controls (Text Input, Select Box, Submit and Reset Button)</p>
Reference Books:	<ol style="list-style-type: none"> 1. Internet- The Complete Reference, Margaret Levine Young- McGraw-Hill 2. The Rough Guide to The Internet- Rough Guides Limited 3. Introduction to Networking RecharMcMohan Tata McGraw Hill Publication 4. HTML Black Book – Steven Holzner – Dreamtech Press 5. Computer Network Fundamentals and application – R S Rajesh Vikas Publication 6. HTML for the World Wide Web, Fifth Edition, with XHTML and CSS- Peachpit Press 7. Advanced HTML companion – Keith S. & Roberts - AP Professional
Teaching Methodology:	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method:	30% internal assessment. 70% External assessment

Course 202 - 1: Computerized Financial Accounting

Course Code	202
Course Title	Computerized Financial Accounting
Credit	3
Nature of Subject :	Theory only.
Teaching per Week	3 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2020
Purpose of Course	Accounting takes an important role in operating an organization. Every business must keep track of financial information that relates to its business activities. This course will help students in understand basic concepts of Financial Accounting and also understand working of a good Financial Accounting software.
Course Objective	The objective of this course is to teach basic concepts of Financial Accounting & use of a good Financial Accounting Software
Pre-requisite	None
Course Out come	After learning this subject student will be able to know the basic concepts of Financial Accounting & use of a good Financial Accounting Software.
Course Content	<p>Unit 1. Introduction to Accounting System</p> <ol style="list-style-type: none"> 1.1. Meaning & Definition of Accounting 1.2. Objectives of Accounting 1.3. Concepts and Features of Book Keeping 1.4. Branches of Accounting (Financial Management, Cust) 1.5. Basis of Accounting (Accrual Bases, Cash Bases) 1.6. Accounting Concepts <p>Unit 2. Accounting Equation & Transaction Analysis</p> <ol style="list-style-type: none"> 2.1. Introduction to Assets, Liabilities, Equities 2.2. Concepts of Transaction Analysis 2.3. Classification of Accounts (Real Account, Personal Account, Nominal Account) <p>Unit 3. Concepts of Book-Keeping</p> <ol style="list-style-type: none"> 3.1. Introduction of Single Entry System and its advantages/disadvantages 3.2. Introduction of Double Entry System and its advantages 3.3. Types of Business Transaction <ol style="list-style-type: none"> 3.3.1. Cash Transaction 3.3.2. Credit Transaction 3.3.3. Barter Transaction 3.4. Concepts of important Terminologies: Opening Stock, Closing Stock, Goods, Inventory, Assets, Liabilities, Capital, Debit, Debtors, Creditors, Income, Expenses, Loss, Profit, Credit, Debit. <p>Unit 4. Journal & Subsidiary Books (With Preliminary examples)</p> <ol style="list-style-type: none"> 4.1. Meaning of Journal

	<p>4.2.Format of Journal 4.3.Concept and format of cash Book 4.4.Concept and format of Petty cash Book 4.5.Concept and format of Purchase, Sale, Purchase Return and Sale Return Book</p> <p>Unit 5. Concept of Accounting Mechanism 5.1.Meaning and Definition of Ledger 5.2.Types of Ledger 5.3.Trial Balance and its objectives</p>
Reference Book	<ol style="list-style-type: none"> 1. Accounting for Management – By Dr.Hawaharlal 2. Financial Management - By Dr. S. N. Maheshwari 3. Accounting for Management – By S. K. Bhattacharya & John Deardon 4. Advanced Accountancy – By S. P. Jain & K. I. Narang 5. Implementing Tally 6.3 – By K. K. Nathani – BPB Publication 6. Implementing Tally 7.2 – By A. K. Nathani& K. K. Nathani BPB Publication
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	<p>30% Internal assessment. 70% External assessment.</p>

Course-202-2 : Emerging Trends and Applications in IT (ET & IT)

Course Code	202 - 2
Course Title	Emerging Trends and Applications in IT (ET & IT)
Credit	3
Nature of Subject:	Theory Only
Teaching per Week	3Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2020
Purpose of Course	<p>Technology changes very frequently. The information technology and software industry is emerging at very fast pace. Aim of this course is to provide</p> <ol style="list-style-type: none"> 1) Fundamental Knowledge about emerging trends in Information & Communication Technology. 2) Study about Design and implementation concepts of Application software & their applicability. 3) Students acquire concepts and knowledge about designing professional and commercial application softwares.
Course Objective	<ol style="list-style-type: none"> (i) To provide fundamental information regarding the emerging trends of ICT industry. (ii) To provide basic knowledge about emerging trends and related buzz words of ICT industry. (iii) To provide basic knowledge and glimpses about readymade software applications, their design and application areas.
Pre-requisite	None
Course Out come	After studying this course, students will be able to understand concepts of emerging information Technology and readymade software.
Course Content	<p>Unit 1. Software Fundamentals</p> <ol style="list-style-type: none"> 1.1. What is software 1.2. Types of software (System and Application Software) 1.3. System Software Fundamentals. 1.4. Application software fundamentals. 1.5. Purpose of Application software 1.6 Stand-alone Application software 1.7 Multi-user Application Software 1.8 Client-server Architecture concepts. <p>Unit 2. Introduction to File System and File Management</p> <ol style="list-style-type: none"> 2.1. What is website

	<p>2.2.Purpose of Website</p> <p>2.3. Working of interactive websites.</p> <p>2.4. Various software and tools used to develop static and interactive websites.</p> <p>2.5 Working of online transactions</p> <p>Unit 3. Case Study-1 :</p> <p>3.1. Study of design and application of popular websites. [Purpose of this unit is to show Live demo of various sites and introduce their various features during class room teaching.]</p> <p>3.1.1 Online product shopping websites: Case Study of Amazon, Snapdeal, Flipkart.</p> <p>3.1.2.Online reservation system : Case study of Railway Reservation System (IRCTC), Bus Reservation System (GSRCT).</p> <p>3.1.3 Online transactions processing</p> <p>3.2 Online Payments:</p> <p>3.2.1 Security measures of online payment system.</p> <p>3.2.2 Payment gateway</p> <p>3.2.3 Concepts of NEFT, RTGS, IMPS</p> <p>3.2.4 Online Payment Systems using mobile apps like PayTm, BHIM</p> <p>3.2.5 Online payments process through Credit and Debit Cards.</p> <p>Unit 4. Case Studies of Application Software (Any live System should be shown as case study):</p> <p>4.1. Production planning Application software system</p> <p>4.2.Accounting Application software system</p> <p>4.3.Inventory Applications:</p> <p>4.4. Mobile Application</p> <p>4.4.1 Fundamentals of mobile Applications</p> <p>4.4.2 Concepts of mobile apps and their OS(iOS,Android)</p> <p>Unit 5. Emerging Trends in IT [Purpose of this unit is to give only Fundamental knowledge about the terminologies and emerging concepts of these technologies]</p> <p>5.1. Emerging trends and Buzz words (Only Basic concepts)</p> <p>5.1.1 Concepts of ERP (Fundamentals and importance)</p> <p>5.1.2 ETL concepts (Extraction, Transformation, Loading)</p> <p>5.1.3 Concepts of Data Warehousing</p> <p>5.1.4 Concepts of data science and its application areas.</p> <p>5.1.5 Concepts of Data Analytics and related tools</p> <p>5.1.6 Concepts of Business Analytics</p> <p>5.1.7 Concepts of cloud</p>
Reference Books	<ol style="list-style-type: none"> 1. E-Commerce : An Indian Perspective, 3rd Edition – Joseph PHI 2. Frontiers of Electronic Commerce : Kalakota and Whinstn Addition Wesley 3. Computer Fundamentals : Pradeep K. Sinha &Priti Sinha (BPB) 4. Fundamentals of Computers : V. Rajaraman

Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	30% Internal assessment. 70% External assessment.

Course 203: Operating System - I

Course Code	203
Course Title	Operating System - I
Credit	4
Nature of Subject:	Theory Only
Teaching per Week	4 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2020
Purpose of Course	An Operating System (OS) is a software that manages computer hardware and software resources and provides common services for computer programs. The operating system is an essential component of the system software in a computer system. Application programs usually require an operating system to function.
Course Objective	The objective of this course is: <ol style="list-style-type: none"> 1. To make students understand functionality provided by an Operating System. 2. To make students aware with basic concepts of Windows O. S. Management. 3. To teach device management to the Students.
Pre-requisite	Basic Knowledge of Programming.
Course Out come	After studying this course, students will be able to understand what the role of an OS is; how process management, memory management, and file management is performed by the OS. The students will be able to develop applications that coordinate with the respective OS in a much better way, which is so essential.
Course Content	<p>Unit 1. Operating System Concepts</p> <ol style="list-style-type: none"> 1.1. Evolution of Operating System & History 1.2. Need of an Operating System 1.3. Single User & Multi User Operating System 1.4. Elements of an Operating System 1.5. Operating System as a Resource Manager <p>Unit 2. Introduction to File System and File Management</p> <ol style="list-style-type: none"> 2.1. File Concept 2.2. Operations on File 2.3. File Access Methods (Sequential Access and Direct Access) 2.4. Directory Systems File Management Functions. 2.5. File System and Directory Structure organization. 2.6. File Protection. <p>Unit 3. Introduction of Linux</p> <ol style="list-style-type: none"> 3.1. Introduction of Linux versions 3.2. Components of Linux

	<p>3.3.Comparison of Windows and Linux</p> <p>Unit 4. Linux Administration</p> <p>4.1.Installing Linux</p> <p>4.2.Installation of Open Source Software</p> <p>4.3.Maintaining User Accounts</p> <p>4.4.System Config Services (Package)</p> <p>Unit 5. Device Management</p> <p>5.1.Device Management Function</p> <p>5.2.Device Characteristics</p> <p>5.3.Disk space Management</p> <p>5.4.Allocation and Disk Scheduling Methods</p>
Reference Books	<ol style="list-style-type: none"> 1. Operating System Concepts: – James Peterson: – McGraw Hill 2. Operating System: – Stallings - PHI 3. Operating System Principles: – Silberschatz, Galvin, Gagne - Willey, India 4. Operating Systems – A. S. Godbole – Tata McGraw Hill 5. Linux – The Complete Reference – Richard Petersen – Tata McGraw Hill
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	<p>30% Internal assessment.</p> <p>70% External assessment.</p>

Course 204: Programming Skills

Course Code:	204
Course Title:	Programming Skills
Credit:	4
Nature of Subject:	Theory and Practical
Teaching per Week	4 Hours
Minimum weeks per Semester:	15 (Including Class work, examination, preparation etc.)
Review / Revision:	June, 2020
Purpose of Course:	Understand concepts of programming using Compiler based programming language C and Interpreter based programming Language Python. Python codes can be executed using any open source IDE. This is not IDE specific course.
Course Objective:	<ul style="list-style-type: none"> i) Advance programming skills using compiler based programming language C ii) Introduction of Interpreter based Programming language Python. iii) Enhancing basic programming skills using Interpreter based and Compiler based programming languages.
Pre-requisite:	Fundamental knowledge of computer programming using 'C' language. Knowledge of Python and Python IDE installation is recommended.
Course Outcome:	Students will be proficient working on conditional statements, iterative Statements and fundamentals of programming concepts using C and Python.
Course Content:	<p>UNIT-1: Arrays, Structure & Union and User defined function in C programming Language:</p> <p>1.1 Concepts of Two-Dimensional Numeric Array:</p> <ul style="list-style-type: none"> 1.1.1 Declaring Two-Dimensional numeric array 1.1.2 Two-Dimensional numeric Array operations (Addition, Subtraction, Multiplication, Transpose) 1.1.3 Element Address in array (Row major and Column major) 1.1.4 Two-Dimensional Character Array: <ul style="list-style-type: none"> 1.1.4.1 Declaring & Initializing Two-Dimensional character array 1.1.4.2 Two-Dimensional character Array operations (<ul style="list-style-type: none"> Searching elements, copying, merging, finding length of given string) <p>1.2 Concepts of structure and Union:</p> <ul style="list-style-type: none"> 1.2.1 Defining, declaring and Initializing structure and Union 1.2.2 typedef and accessing structure member 1.2.3 Difference between structure and union <p>1.3 User defined functions:</p> <ul style="list-style-type: none"> 1.3.1 Function return type, parameter list, local function variables 1.3.2 Passing arguments to function 1.3.3 Calling function from main() function or from other function. 1.3.4 Function with No arguments and no return value, <ul style="list-style-type: none"> No arguments and a return value, with arguments and no return value, with arguments and a return value. 1.3.5 Recursive Function <p>UNIT-2 : Python Fundamentals:</p> <p>2.1 Concepts of Interpreter based programming language:</p> <ul style="list-style-type: none"> 2.1.1 Structure of Python Programming language.

- 2.1.2 Python code Indentation and execution
- 2.2 Python Variables:
 - 2.2.1 Naming of variables and Dynamic declaration of variables
 - 2.2.2 Comments in Python
 - 2.2.3 Assigning values to multiple variables
 - 2.2.4 Global variables
- 2.3 Python Datatypes:
 - 2.3.1 Text (str), Numeric Type (int, float, complex), Boolean (bool)
 - 2.3.2 Setting Datatypes
 - 2.3.3 Type conversion (int, float, complex), casting (int, float, str)
- 2.4 User defined function.
 - 2.4.1 Defining function, Function with Parameters
 - 2.4.2 Parameter with default value, Function with return value

UNIT-3 : Python Strings and Operators

- 3.1 Python Strings:
 - 3.1.1 Multiline string, String as character array, triple quotes
 - 3.1.2 Slicing string, negative indexing, string length, concatenation
 - 3.1.3 String Methods: (centre, count, join, len, max, min, replace, lower, upper, replace, split)
- 3.2 Operators:
 - 3.2.1 Arithmetic Operators (+, -, *, /, %, **, //)
 - 3.2.2 Assignment Operators (=, +=, -=, /=, *=, //=)
 - 3.2.3 Comparison Operators (==, !=, >, <, >=, <=)
 - 3.2.4 Logical Operators (and, or, not)
 - 3.2.5 identity and member operators (is, is not, in, not in)

UNIT-4 : Python conditional and iterative statements :

- 4.1 if statement, if..elif statement, if..elif...else statements, nested if
- 4.2 Iterative statements:
 - 4.2.1 while loop, nested while loop, break , continue statements.
 - 4.2.2 for loop, range, break, continue, pass and Else with for loop, nested for loop.
- 4.3 List : creating list, indexing, accessing list members, range in list, List methods (append, clear, copy, count, index, insert, pop, remove, reverse, sort).

UNIT-5: Python Collections and Library :

- 5.1 Python Collections:
 - 5.1.1 Tuples : Declaring tuple, indexing tuple, changing tuple values, adding and removing data from tuple, Use of tuple() method to create tuple, count() and index() methods.
 - 5.1.2 Sets: declaring set, access set data, set methods (add, clear, copy, discard, pop, remove, union, update).
 - 5.1.3 Dictionary:
 - 5.1.3.1 Creating Dictionary, Adding, Accessing and Removing element
 - 5.1.3.2 Dictionary methods : get(), pop(), popitem(), clear(), copy()
- 5.2 Introduction to Numpy and Pandas:
 - 5.2.1 Overview of numpy
 - 5.2.1.1 Numpy methods (Mean, Median, Mode, Standard Deviation and Variance)
 - 5.2.1.2 Implementation of Numpy methods on numeric dataset created using list.
 - 5.2.2 Pandas Dataframe:
 - 5.2.2.1 Creating dataframe using list

	<p>5.2.2.2 Creating dataframe using dict of equal lengthlist</p> <p>5.2.2.3 Reading data using csv file(read_csv())</p> <p>5.2.2.4 Retrieving rows and columns from dataframe usingindex</p> <p>5.2.2.5 Retrieving rows and columns using loc and ilocfunctions.</p>
References :	<ol style="list-style-type: none"> 1. Programming in C, Balaguruswami -TMH 2. C Programming Language, Kernigham& Ritchie -TMH 3. The spirit of C, Cooper H &Mullish H - JaicoPub. 4. Programming in C, Stephan Kochan -CBS 5. Mastering Turbo C, Kelly &Bootle -BPB 6. C Language Programming, Byron Gottfried –TMH 7. Learning Python -Mark Lutz : O'ReillyMedia 8. Core Python Programming – by Wesley J Chun ISBN-13: 978-0132269933 9. Python for Everybody: Exploring Data in Python 3, by Charles Severance (Author), Aimee Andrion (Illustrator), Elliott Hauser (Editor), SueBlumenberg (Editor) 10. An Introduction to Python - by van Rossum Guido ISBN:9780954161767, 0954161769 11. Core Pyhton Application Programming – by Wesley J Chun PrenticeHall
Teaching Methodology:	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method:	30% Internal assessment. 70% External assessment.

Course 205: Concepts of Relational Database Management System

Course Code	205
Course Title	Concepts of Relational Database Management System
Credit	4
Nature of Subject:	Theory and Practical
Teaching Per Week	4 Hrs
Minimum Weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review/Revision	June 2020
Purpose of Course	Imparting fundamental knowledge of Relational Database. This course also includes SQL & fundamentals of PL/SQL.
Course Objective	<ol style="list-style-type: none"> 1. To make students understand RDBMS architecture 2. Have edge over Control and Iterative statements of PL/SQL 3. Understanding advanced SQL and various complex queries. 4. To make students aware of cursors and Exception Handling.
Pre-requisite	Basic knowledge of Database Management System (DBMS) .
Course Out come	After learning this subject students will know how to store, retrieve and administer the data easily & efficiently.
Reference Book	<ol style="list-style-type: none"> 1. The Complete Reference, George Koch, Kevin Loney – Oracle Press 2. Database Management System, Oracle, SQL and PL/SQL, 2nd ed., Das Gupta & Radha Krishna, PHI 3. Oracle 9 PL/SQL Programming, Scott Urman – Oracle Press 4. Oracle SQL: The Essential Reference, David C. Kreines – O'Reilly 5. SQL, PL/SQL: The Programming Language Of Oracle, Ivan Bayross – BPB 6. Oracle PL/SQL Programming – Feuerstein & Peribyl – SPD O'Reilly 7. Learning Oracle SQL and PL/SQL: A Simplified Guide, Rajeeb C. Chatterjee
Teaching Methodology	Class Work, Discussion, Self Study, Seminars and/or Assignments
Evaluation Method	30% Internal assessment. 70% External assessment.

Course-206: Practical

Course Code:	206
Course Title:	Practical
Total Credits :	06 Credits
Nature of Subject :	Practical only
Teaching per Week:	12 Hours per week per Semester
Minimum weeks per Semester:	15 weeks (Including class work, examination, preparation etc.)
Review/Revision Year:	June, 2020
Purpose of Course :	<ul style="list-style-type: none"> - Practical implementation of technologies covered as part of syllabus using required software and learning application areas. - Understanding and learning concepts like structure, union and user defined functions using c-programming. - Comparing concepts of compiler based and interpreter based programming language and its conditional and iteration statements. - Understanding, use and application areas of interpreter based programming language Python and its important data structures. - Understanding concepts of Numpy and Pandas packages of Python. - Learning advanced queries, joining queries using multiple tables and implementation of procedural part using SQL. - Understanding various inbuilt functions and concepts of cursors.
Objective :	Objective of this course is to learn and enhance programming skills using compiler based programming language C and interpreter based programming language Python. Learning and enhancing programming skills using control structures and some important data structures of Python and C-programming language. Learning concepts of python library files and its important features.
Pre-requisite:	Concepts of Programming language C and concepts of SQL.
Course Outcome :	<ul style="list-style-type: none"> - At the end of this course, students will have hands on experience of writing and applying codes using compiler based programming language. Students will understand concepts of structures, unions and user defined functions using C-programming language. - Students will understand concepts of interpreter based programming language using python and executing codes using variables, in-built functions, control structures and some important data structures of python. - Students will have edge over concepts Programming skills and clear idea about using conditional and iterative statements, use of library functions and creating user defined functions. - Students will be able to understand and important packages like NumPy and Pandas in python. - Students will be able to work on procedural language which incorporates SQL and relevant datatypes, control structures, in-built functions and cursors.
Course Content:	<ol style="list-style-type: none"> 1. Writing codes and execution of tasks based on Course-Paper-204. 2. Practical implementation of SQL and Procedural SQL based on Paper-205.
Teaching Methodology:	- Practical work, Lab sessions and hands on experience, Discussion, Self-Study
Evaluation Method:	30% Internal assessment. 70% External assessment. [For Internal and External Examination Suggested distribution of question weight will be : 20% - based on Unit-1 & Unit-2 of Course-paper-204 , 40% - based on Unit-3 to Unit-5 of Course-paper-204 and 40% - based on Course-paper-205.

યુનિવર્સિટી ગીત

ઘન્ય ઘન્ય ઘરતી લીલી મંગલ દક્ષિણ ગુજરાત,
સ્થાપિત વિદ્યાપીઠ અમારી રમ્ય અને રળિયાત.

અર્વાચીન સમયનું ઊગ્યું અહીં પહેલું પરભાત...
ઘન્ય ઘન્ય ઘરતી લીલી મંગલ દક્ષિણ ગુજરાત...

તાપી, પૂર્ણા, સરિત નર્મદા, અભિષકા, કાવેરી,
લાટ સદાએ લીલોછમ નદીઓનાં પટકૂળ પ્હેરી.
પશ્ચિમે રત્નાકર કેરી ધૂધવે તારંગમાળ,
કુદરતની છે મ્હેર કે ભૂમિ બારે માસ રસાળ.

નમક લઈ દાંડીમાં ગાંધીએ ફેંક્યો પડકાર,
બારડોલીના સત્યાગ્રહથી પંકાયા સરદાર.
કવિ નર્મદની કલમે પ્રગટ્યું ગરવું ગુર્જરી-ગીત,
મુનશીજીએ સદા શીખવી અસ્મિતા શું પ્રીત.

સરળ પ્રકૃતિના સૌ લોકો આનન્દી, અભિજાત...
ઘન્ય ઘન્ય ઘરતી લીલી મંગલ દક્ષિણ ગુજરાત...

સ્વતંત્રતાનો દાદાએ અહીં શંખ ફૂંક્યો સાક્ષાત,
ઘન્ય ઘન્ય ઘરતી લીલી મંગલ દક્ષિણ ગુજરાત...

ભૃગુઋષિની પુણ્યભૂમિએ, ભૃગુકચ્છ મશહુર,
ચૌર્થાસી બંદરના ધ્વજથી, સુરત સૌમ્ય - ભરપૂર.
રામ અને શબરીને પગલે, ઘન્ય ડાંગની ઘરતી,
કોલક, કીમ, મીંટોળા નદીઓ, નિશાદિલ કલકલ ઘરતી.

દક્ષિણ ગુર્જર ક્ષેત્રની વિદ્યાપીઠ અમારી માતા,
સત્ય, જ્ઞાનને અનંતની એ છે ઉજ્જવલ ઉદ્ગાતા.
એના ગૌરવ, વિકાસ પ્રગતિ અમને પ્રાણથી વદાલાં,
એને કંઠે પહેરવીશું સિદ્ધિની જયમાલા.

સાત સમંદર પાર અહીંની પ્રજા ઘણી પ્રખ્યાત,
ઘન્ય ઘન્ય ઘરતી લીલી મંગલ દક્ષિણ ગુજરાત...

વિદ્યાને ચરણે ઘરીએ નિષ્ઠાનાં પારિજાત,
ઘન્ય ઘન્ય ઘરતી લીલી મંગલ દક્ષિણ ગુજરાત,
સ્થાપિત વિદ્યાપીઠ અમારી રમ્ય અને રળિયાત.

રાનીપરજ ને કાળીપરજના ભાતીગળ સંચાર,
આદિવાસી-વનવાસીઓના ઉત્સવમય વ્યવહાર.
અહીં બંદરો ધમધમતાં, ઉદ્યોગો ધમધોકાર,
કલા-કસબને ભાતુભાવના અહીં ઉત્તમ સંસ્કાર.

રચયિતા - શ્રી ભગવતીકુમાર શર્મા



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