

Notification

No : 34/2013

Date : 25/4/2013

Subject : Continuation of Prospectus No. 2012154 of M.Com.Part-I & Part-II.

It is notified for information of all concerned that the Prospectus No. 2012154 prescribed for M.Com. Semester-I & III Examination of Winter-2012 & Semester-II&IV Examination of Summer-2013 shall be continued for M.Com. Semester-I &III Examination of Winter-2013 & Semester-II&IV Examination of Summer-2014 with following corrections.

Sr.No.	Reference in Prospectus No.2012154 of M.Com.Part-I& II Examinations (Semester Pattern)	Corrections/Additions
01.	Page No. 28	The following Reference Book be added under Sr. No.8 of the Books Recommended: 9. Modern Approach to Statistics : By Dr. Varsha S.Sukhadeve-Sugawa Prakashan, Pune-30.

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University

Notification

No : 35/2013

Date:-25/4/2013

Subject : Continuation of Prospectus No. 2013152 of B.Com. Part-II.

It is notified for information of all concerned that the Prospectus No. 2013152, prescribed for B.Com. Part-II Examination of Summer-2013 shall be continued for B.Com. Part-II Examination of Summer-2014 with following corrections.

Sr.No.	Reference in Prospectus No.2013152 of B.Com.Part- II Examination	Corrections/Additions
01.	Page No. 38	The following Reference Book be added under the list of Books Recommended- Dr. Sukhadeve Varsha S -Modern Approach to Statistics - Sugawa Prakashan, Pune-30.

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE



Official Publication of Sant Gadge Baba Amravati University

PART-TWO

Thursday, the 2nd May, 2013

Notification

No. : 36 / 2013

Date:- 02/05/2013

Subject : Correction in the Prospectus No.20131246 prescribed for P.G.Diploma in i) Mechatronics, ii) Biomedical Electronics & iii) Computer Maintenance

It is notified for general information of all concerned that in the Prospectus No.20131246 prescribed for P.G.Diploma in i) Mechatronics, ii) Biomedical Electronics & iii) Computer Maintenance for the Academic Session 2012-13, corrections shall be made as given below.

TABLE

Sr.No.	Reference in Prospectus	Addition
1	Prospectus No. 20131246 prescribed for P.G.Diploma in i) Mechatronics, ii) Biomedical Electronics & iii) Computer Maintenance On page No.11 & 15	After the note "After completion of first semester, students have to complete either second semester or the on job training in company.", following scheme of awarding marks be added. "1. Marks on Academic Performance - 50 a) Attendance - 10 b) Knowledge of concepts - 10 c) Intellectual Ability - 05 d) Decision making ability - 05 e) Skill for handling the task - 10 f) Co-operation/leadership qualities - 05 g) Sense of Responsibility - 05 2. Presentation and Demonstration of the Project Completed during training . - 100 3. Viva-voce (Internal at industries - 50 4. Evaluation of Project (External) - 100

Above prospectus shall be continued for the session 2013-14 and onwards.

Sd/-

(Dineshkumar Joshi)

Registrar

Sant Gadge Baba Amravati University

Notification

No.: 37/2013

Dated : 2/5/2013

Subject :Syllabi for Certificate / Diploma / Advanced Diploma course in 'Vermicomposting' under the scheme of Career Oriented Programme at first degree level sponsored by U.G.C.

It is notified for general information of all concerned that the authorities of University have accepted the syllabi prescribed earlier for Certificate/Diploma/Advanced Diploma Course in "Vermipost" shall be applicable for the Certificate/Diploma/Advanced Diploma course in "Vermicomposting" as it is along with other details.

It is further notified that the eligibility criteria and other details along with the Scheme of examination shall be as provided under Ordinance No.47 of 2005, Regulation No.38 of 2005, Direction No.6/2008 and 7/2008.

Sd/-

(Dineshkumar Joshi)

Registrar

Sant Gadge Baba Amravati University

Notification

No. : 38 / 2013

Date: 2/5 / 2013

Subject : Continuation of Prospectus No.2013121 prescribed for B.Sc.Part-I (Sem-I & II)

It is notified for general information of all concerned that the Prospectus of B.Sc.Part-I (Sem-I & II) bearing No.2013121 prescribed for the Academic Session 2012-13 including Notification No. 146/2012, Dt. 17.10.2012 shall continue for the session 2013-14 along with the following substitution.

The syllabi of B.Sc.Part-I Sem-I '1S Chemistry' printed on page Nos.21-26 and B.Sc.Part-I Sem-II '2S Chemistry' printed page Nos.95 to 103 be substituted by the following Appendix-A & Appendix-B respectively.

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University

Appendix-A

**1S Chemistry
(Effective from session 2013-14)**

The examination in Chemistry of First semester shall comprise of one theory paper, internal assessment and practical examination. Theory paper will be of 3 Hrs. duration and carry 80 marks. The internal assessment will carry 20 marks. The practical examination will be of 6 hours duration and carry 50 marks.

The following syllabi is prescribed on the basis of six lectures per week and 6 practical periods per batch per week. Each theory paper has been divided into 6 units. There shall be one question in every unit with internal choice for each of 12 marks & one compulsory question covering all the syllabus of Semester-I (8 marks).

**B.Sc. Part- I (Semester- I)
1S Chemistry**

Total Lectures: 84

Marks: 80

Note: Figures to the right hand side indicate number of lectures.

Unit I

14L

A] Periodic Properties:

Atomic and ionic radii. Types of atomic radii (only definitions - covalent radius, metallic radius, Van der Wall's radius and ionic radius). Periodic trends in atomic and ionic radii. Ionization energy, electron affinity and electronegativity (definition and periodic trends). Effect of ionization energy and electronegativity on different properties of elements namely metallic and non-metallic character, relative reactivity, oxidizing and reducing properties., Scales of electronegativity Pauling scale and Mulliken Scales. Electronegativity and partial ionic character of a covalent bond.

[6]

creening effect, screening constant and effective nuclear charge. Slater's rules for calculating screening constant.

Problems.

[2]

B] Ionic bonding:

Definition of ionic bond, types of cations. Factors affecting ionic bond formation (energetic of ionic bond formation ionization energy, electron affinity and lattice energy). Born Lande equation (no derivation) to calculate lattice energy. Born-Haber's cycle to determine lattice energy. Solvation and salvation energy, factors affecting salvation energy, Determination of salvation energy. Solubility of ionic solids, lattice energy and salvation energy.

[6]

Unit II

14L

A] S-Block element:

Comparative study of 1st and 2nd group elements with reference to electronic configuration, ionisation energy, oxidation states, reactivity and flame colouration. Diagonal relationship between Li and Mg.

[5]

B] P-Block element:

Comparative study of 13th, 14th and 15th group elements with reference to electronic configuration, ionisation energy, oxidation states. Concept of inert pair effect. Diagonal relationship between Be and Al. Structure of diamond and graphite. Abnormal behaviour of nitrogen. Hydrides of boron- preparation(from BCl₃ and NaBH₄two), properties(action of heat, water, alkali and oxygen), structure and bonding in diborane. Carbides, types of carbides and fullerenes. **[9]**

Unit III

14L

A] Electronic Displacements:

Inductive effect, Electromeric effect, Resonance and Hyperconjugation (definition, and applications of these effects)

[3]

B] Reactive Intermediates:

Carbocations, Carbanions and free radicals: their generation stability and reactions.

[2]

C] Aliphatic Hydrocarbons:

Alkanes: Methods of formation: i)Wurtz reaction and ii)Corey-House reaction, Reactions: i)Halogenation (With mechanism), ii) Aromatisation.

[2]

Alkenes: Methods of formation (With mechanism): i)Dehydrohalogenation of alkyl halides (E_1 & E_2) ii) Dehydration of alcohols, Reactions: Electrophilic and free radical addition of HX and X_2 (with mechanism).

[3]

Alkynes: Preparation from vicinal and geminal dihalides, Reaction- Hydrogenation

[2]

Alkadienes: Classification, 1,3-Butadiene- Preparation from cyclohexene, Reactions- Addition of H_2 , Br_2 and HBr .

[2]

Unit IV- Aromatic Hydrocarbons

14L

A] Nomenclature and Isomerism of Aromatic Compounds. Structure of Benzene: Kekule structure and Molecular orbital structure.

[4]

B] Aromaticity and Huckel's rule Aromatic, antiaromatic and non-aromatic systems.

[4]

C] Mechanism of Electrophilic Aromatic Substitution: Nitration, Friedel Craft Alkylation and Acylation. Nuclear and Side Chain Halogenation, Birch Reduction.

[4]

D] Orientation: Effect of substituent groups. Activating and deactivating groups. Theory of reactivity and orientation on the basis of inductive and resonance effects ($-CH_3$, $-OH$, $-NO_2$ and $-Cl$ groups).

[2]

Unit V - Thermodynamics

14L

Adiabatic and Isothermal processes. Work done in adiabatic and isothermal processes, Evaluation of different expressions showing relationship between pressure, volume and temperature. First law of Thermodynamics and its limitations, Need of Second law. Carnot's heat engine, derivation of expression for the work done and efficiency of Carnot's engine. Statements of Second law of thermodynamics.

Concept of Entropy, Physical significance of Entropy, Derivation of expression for the Entropy change for an ideal gas in terms of pressure, temperature and volume. Entropy change for an ideal gas for isothermal, isobaric and isochoric processes, Entropy of fusion, sublimation, vapourization, transition and its calculations. Entropy change for reversible and irreversible processes. Entropy change as a criteria for spontaneity. Numericals.

[14]

Unit VI

14L

A] Gaseous State: Postulates of Kinetic theory of gases, Derivation of Kinetic gas equation. RMS, Average and Most probable velocities and their relationship. Maxwell-Boltzmann distribution law of molecular velocities (only qualitative treatment), Mean free path, collision number and collision diameter. Deviation of real gases from ideal gas behaviour. Vanderwaal's equation of state and its derivation for real gases. Critical phenomenon, Andrew's experiment - isotherm of CO_2 . Critical state, critical constant, P_c , V_c and T_c in terms of Vanderwaal's constants 'a' and 'b'. Reduced equation of state and its derivation. Law of corresponding state. Numericals.

[10]

B] Phase Rule:

Statement of phase rule, explanation of phase, number of components and degree of freedom. Application of phase rule to water and sulfur system.

[4]

**Semester I
1S Chemistry Practicals**

Total Laboratory Sessions: 26

Marks: 50

Exercise 1: Inorganic Qualitative analysis

12 Laboratory sessions

Semimicro qualitative analysis of inorganic salt mixture containing two acidic radicals and two basic radicals of same or different groups. At least six mixtures to be given

Analysis of basic radicals to be done by using spot test reagents. Following radicals to be given carbonate, nitrite, sulphite, sulphide, chloride, bromide, iodide, nitrate and sulphate, silver(I), lead(II), copper(II), bismuth(III), cadmium(II), tin(II), arsenic(III), antimony(III), iron(III), chromium(III), aluminium(III), nickel(II), cobalt(II), manganese(II), zinc(II), calcium(II), strontium(II), barium(II), magnesium(II).

Exercise II: Organic Preparations

14 Laboratory sessions

1. Preparation of acetanilide (Acetylation).
2. Preparation of Benzanilide (Benzoylation).
3. Preparation of m-di-Nitrobenzene (Nitration).

4. Preparation of tri-Bromoaniline from Aniline (Bromination).
 5. Preparation of Benzoic acid from Benzamide (Hydrolysis).
 6. Preparation of Benzoic acid from benzaldehyde (Oxidation).
 7. Preparation of phenylazo – β – naphthol dye (Diazotisation).
 8. Preparation of sulphanilic acid from aniline (Sulphonation).
- Organic Preparations Using Green Chemistry Concept**
9. Acetylation of primary amine (Preparation of acetanilide).
 10. Base catalysed Aldol Condensation (Synthesis of dibenzal propanone).

Note:

- a) Student should perform the single stage preparation with the help of given procedure.
- b) Melting point and percentage yield should be reported.
- c) The sample should be submitted.
- d) Students should recrystallize the sample with suitable solvent.
- e) Students should know the reaction and its mechanism of given single stage preparation.

Distribution of Marks for Practical Examination

Time: 6 hours (One Day Examination)	Marks: 50
Exercise-I	18
Exercise-II	18
Viva-Voce	07
Record	07
Total:	50

Books Recommended:

1. Principles of Inorganic Chemistry by Puri, Sharma and Kalia- S. Naginchand & Co., Delhi.
2. Text book of Inorganic Chemistry by A.K. De, Wiley East Ltd.
3. Selected Topics in Inorganic Chemistry by Malik, Tuli and Madan- S. Chand & Co.
4. Modern Inorganic Chemistry by R.C. Agrawal, Kitab Mahal.
5. Instrumental Methods of analysis by Chatwal and Anand, Himalaya Publishing House.
6. Concise Inorganic Chemistry by J.D. Lee, ELBS.
7. Inorganic Chemistry by J.E. Huheey- Harper & Row.
8. Fundamental concepts of Inorganic Chemistry by E.S. Gilreath, McGraw Hill book Co.
9. Modern Inorganic Chemistry by W.L. Jolly, McGraw Hill Int.
10. Chemistry Facts, Patterns & Principles by Kneen, Rogers and Simpson, ELBS.
11. Theoretical Principles of Inorganic Chemistry by G.S. Manku, Tata McGraw Hill.
12. Inorganic complex compounds by Murmann, Chapman & Hall.
13. Text book of Inorganic Chemistry by K.N. Upadhyaya, Vikas Publishing House, Delhi.
14. Advanced Practical Inorganic Chemistry by Gurdeep Raj, Goel Pulishing House, Meerut.
15. Co-ordination Chemistry by D. Banerjee, TMH Publication.
16. Text book of Inorganic Chemistry by Marathe, Bhadange, Mopari and Kubade.
17. Organic Chemistry by R.T. Morrison & R.T. Boyd, 6th edition, PHI.
18. Organic Chemistry by Pine, 5th edition.
19. Organic Chemistry Vol. I, II and III by Mukharjee, Singh and Kapoor- Wiley Eastern.
20. Organic Chemistry by S.K. Ghosh.
21. Reaction Mechanism in Organic Chemistry by S.M. Mukharjee and S.P. Singh.
22. Spectroscopy of Organic Compounds by P.S. Kalsi.
23. Stereochemistry and mechanism through solved problems by P.S. Kalsi.
24. Organic Chemistry by TWG Solomons, 4th edition, John Wiley.
25. Hand Book of Organic Analysis by H.J. Clarke, Arnold Heinmen.
26. Text book of Practical Organic Chemistry by A. I. Vogel.
27. Text book of Organic Chemistry by Jamode, Ganar, Makode, Waghmare, Mahajan, Toshniwal.
28. Text book of Organic Chemistry by P.S. Kalsi published by Macmillan India Ltd., 1999, Delhi.
29. Practical Organic Chemistry by F.G. Mann, B.C. Saunders, Orient Longman.
30. Comparative Practical Organic Chemistry (Qualitative Analysis) by V.K. Ahluwalia and Sunita Dhingra, Orient Longman.
31. Comprehensive Practical Organic Chemistry (Preparation and Qualitative Analysis) by V.K. Ahluwalia and Renu Agrawal, Orient Longman.
32. Physical Chemistry: Walter, J. Moore, 5th edn., New Delhi.
33. Physical Chemistry: G.M. Barrow, McGraw Hill, Indian Edn.
34. Principles of Physical Chemistry: Maron and Prutton.
35. Principles of Physical Chemistry: Puri and Sharma.
36. Physical Chemistry: P.W. Atkins, 4th Edn.
37. Text book of Physical Chemistry: P.L. Sony O.R. Dhrma.
38. Physical Chemistry: Levine.
39. Practical Physical Chemistry: Palit and De.
40. Practical Physical Chemistry: Yadao.
41. Practical Physical Chemistry: Khosla.
42. Laboratory Manual of Physical Chemistry: W.J. Popiel.
43. Practical Chemistry: Dr. S.B. Lohiya, Bajaj publ., Amravati.

44. Text book of Physical Chemistry: Satpute, Kabra, Raghuwanshi, Wankhade, Jumle and Murarka.
 45. Text book of Chemistry, B.Sc.-I, First Semester, Bokey Prakashan, Amravati

Appendix-B

**B.Sc. Part – I (Semester – II)
 2S Chemistry**

Total Lectures: 84

Marks: 80

Note: Figures to the right hand side indicate number of lectures.

Unit I

14L

A] Polarisation-Definition, polarising power, polarizability, effect of polarization on nature of bond. Fajan's rules of polarisation and its applications.

[4]

B] Covalent bonding-Directional nature of covalent bond. Hybridisation, types of hybridisation to explain geometries of NH_4^+ ion, PCl_5 , SF_6 and IF_7 .

[4]

C] Acids and Bases-Theory of solvent systems and Lux-Flood concept of acids and bases. Hard and soft acids and bases. Pearsons HSAB or SHAB principle with important applications.

[6]

Unit II

14L

A] P-Block Elements-Comparative study of 16th and 17th group elements with reference to electronic configuration, ionization energy and oxidation states. Oxidising properties of halogens with reference to oxidation potential. Interhalogen compounds, structure and bondings. Introduction to fluorocarbons.

[6]

B] Noble Gases-Inertness of noble gases. Compounds of noble gases-only structure and bonding in XeF_2 , XeF_4 , XeF_6 , XeO_3 and XeO_4

[2]

C] Nonaqueous Solvents-Requirements of a good solvent. Water as an universal solvent. Physical properties of solvents namely liquid range, dielectric constant, dipole moment, heat of vaporisation and solubility behaviour. Classification of solvents. Acid base, precipitation, redox, solvolysis and complexation reactions in liquid ammonia. Merits and demerits of liquid ammonia as a solvent.

[6]

Unit III

14L

A] Alkyl Halides:

Synthesis of vinyl chloride from acetylene and allyl chloride from propylene, Reactions of both with aqueous and alcoholic KOH, Comparison of reactivity of vinyl and allyl chloride.

[4]

B] Aryl Halides:

Synthesis chlorobenzene from benzene, phenol and benzene diazonium chloride, Synthesis of benzyl chloride from toluene and benzyl alcohol, Reactions of both with aqueous KOH, NH_3 and sodium ethoxide, Comparison of reactivity of chlorobenzene and benzyl chloride. Benzene intermediate mechanism.

[4]

C] Alcohols:

Dihydric alcohols: Ethylene glycol- Preparation from ethylene, ethylene chloride and ethylene oxide, Reactions- with Na, PCl_5 , CH_3COOH , ZnCl_2 , conc. H_2SO_4 and dehydration with heat. Trihydric alcohols: Glycerol- Preparation from propylene, Reactions- with Na, HCl, PCl_5 , HNO_3 and KHSO_4 . Pinacol- pinacolone rearrangement (mechanism).

[6]

Unit IV

14L

A] Phenols:

Methods of formations a) from aniline b) from cumene. Acidic character, Reaction of Phenols- a) Carboxylation (Kolb's reaction), b) Fries Rearrangement, c) Claisen Rearrangement and d) Reimer – Tiemann reaction.

[6]

B] Ethers:

Diethyl ether- Preparation by Williamson's synthesis and continuous etherification process, Reactions-with cold and hot HI.

[4]

C] Epoxides:

Synthesis of ethylene oxide from ethylene and styrene oxide from styrene. Ring opening reactions of both catalysed by acid and alkali.

[4]

Unit V - Physical Properties and Molecular Structure

14L

A] Electrical Properties:

(i) Polar and non-polar molecules. Dipole moment. (ii) Induced polarization and orientation polarization. Clausius-Mossotti equation (only qualitative treatment). (iii) Measurement of dipole moment by temperature and refractivity methods. (iv) Applications of dipole moment for the determination of molecular structure. i.e. percentage ionic character of covalent bonding, molecular geometry, cis-trans isomers, ortho, meta and para isomers of a disubstituted benzene.

[7]

B] Magnetic Properties:

(i) Paramagnetic and diamagnetic substances, origin of paramagnetism, diamagnetism, ferromagnetism and antiferromagnetism. (ii) Volume, specific, mass and molar susceptibility. Relationship between molar magnetic susceptibility and magnetic moment.

(iii) Relationship between magnetic moment and number of unpaired electrons. (iv) Gouy's balance method for determination of magnetic susceptibility. (v) Application of magnetic moment in the determination of molecular structure. (vi) Numericals. [7]

Unit VI - Chemical Kinetics

14L

Explanation of terms like rate of reaction, order of a reaction and molecularity. Definition with one example of zero, first and second order reaction. Half life period of a reaction.

Derivation of rate equation for first and second order reaction with equal initial concentration and different initial concentration of a reactant. Characteristics of first and second order reaction. Examples of first and second order reaction and their kinetics study with modified rate equation viz. the reactions (i) decomposition of H_2O_2 , (ii) reaction between $K_2S_2O_8$ and KI, (iii) hydrolysis of methyl acetate catalyzed by acid, (iv) saponification of ethyl acetate by NaOH and (v) inversion of canesugar.

Determination of order of a reaction by integration, graphical, equifractional change, vant Hoff's differential method and Ostwald's isolation method. Effect of temperature on reaction rates. Arrhenius equation, activation energy and its determination using Arrhenius equation. Numericals.

[14]

**Semester II
2S Chemistry Practicals**

Total Laboratory Sessions: 26

Marks: 50

Exercise I: Organic Qualitative Analysis

16 Laboratory Sessions

Complete analysis of simple organic compounds containing one or two functional groups and involving following steps:

- 1) Preliminary examinations
- 2) Detection of the elements
- 3) Detection of functional groups
- 4) Determination of m.p./ b.p.
- 5) Preparation of derivative and its m.p./ b.p.
- 6) Performance of spot test if any.
 - 1) Acids : Oxalic acid, Benzoic acid, Salicylic acid, Phthalic acid.
 - 2) Phenols : Resorcinol, α -naphthol, β -naphthol.
 - 3) Aldehydes : Benzaldehyde, Glucose.
 - 4) Bases : Aniline, *p*-Toluidine
 - 5) Nitro compounds: *m*-Dinitrobenzene.
 - 6) Amides : Benzamide, Urea, Acetamide.
 - 7) Hydrocarbons: Naphthalene, Anthracene.
 - 8) Halogen compounds : Chloroform, Chlorobenzene.

Exercise II: Physical Chemistry Experiments

10 Laboratory Sessions

- 1) To determine surface tension of a given unknown liquid by Stalagmometer (Density measurement is must).
- 2) To determine coefficient of viscosity of unknown liquid by Ostwald's viscometer (Density measurement is must).
- 3) To compare cleaning power of detergent samples by Stalagmometer.
- 4) To determine parachor value of $-CH_2-$ group by Stalagmometer.
- 5) To determine unknown percentage composition of given ethanol-water mixture by viscometer.
- 6) To determine activation energy of a reaction between $K_2S_2O_8$ and KI.
- 7) To determine heat of solution of KNO_3 .

Distribution of Marks for Practical Examination

Time: 6 hours (One Day Examination)

Marks: 50

Exercise-I	18
Exercise-II	18
Viva-Voce	07
Record	07

Total: 50

Books Recommended:

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38. Physical Chemistry: Levine.
39. Practical Physical Chemistry: Palit and De.
40. Practical Physical Chemistry: Yadao.
41. Practical Physical Chemistry: Khosla.
42. Laboratory Manual of Physical Chemistry: W.J. Popiel.
43. Practical Chemistry: Dr. S.B. Lohiya, Bajaj publ., Amravati.
44. Text book of Physical Chemistry: Satpute, Kabra, Raghuwanshi, Wankhade, Jumle and Murarka.
45. Text book of Chemistry, B.Sc.-I, Second Semester, Bokey Prakashan, Amravati

LIST OF EQUIPMENTS / APPARATUS REQUIRED FOR THE CHEMISTRY PRACTICALS FOR B.Sc.

1. Abbe's Refractometer	02 nos./batch
2. Viscometer	10 nos./batch
3. Stalagmometer	10 nos./batch
4. Melting Point Apparatus	10 nos./batch
5. Thermometer 0-360°C	20 nos./batch
6. Thermometer 0-110°C	20 nos./batch
7. Analytical balance	15 nos./batch
8. Weight box	15 nos./batch
9. Density Bottles	20 nos./batch
10. Kipp's Apparatus	02 nos./batch
11. Quick fit Distillation Assembly/Multipurpose assembly	10 nos./batch
12. Sintered Glass Crucible	20 nos./batch
13. Silica Crucible	20 nos./batch
14. Vacuum Suction Pump	02 nos./Lab.
15. Potentiometer	02 nos./batch
16. Metzer Electronic one pan balance	01 nos./Lab.
17. Filtration flask with Buckner Funnels	
100ml	10 nos./batch
250ml	05 nos./batch
500ml	02 nos./batch
18. Desiccators	10 nos./batch
19. Magnetic Stirrer	10 nos./batch
20. Water Suction	10 nos./batch
21. Conductometer with Conductivity Cell	04 nos./batch
22. Colorimeter	02 nos./batch
23. pH Meter	02 nos./batch
24. Chromatographic Jar	05 nos./batch
25. Separating funnels 250ml, 500ml	05 ECH/batch
26. Hot Air Oven	02 nos./Lab.
27. Hot-Cold Air Blower	01 no./Lab.
28. Centrifuge machine (Electrically Operated)	02 nos./Lab.

29. Deioniser/ Water Still (Electrically Operated)	01 no./Lab.
30. Hot Plate/ Heating Mentle	05 nos./batch
31. Models of Elements (Seven Cryst, types and their symmetry)	
32. Flame Photometer	01 no./batch
33. Spectrophotometer	02 nos./batch
34. Shaking Machine	01 no./batch
35. Polarimeter	02 nos./batch

NOTIFICATION

No. : 39 / 2013

Date:- 2/5 / 2013

Subject : Equivalence scheme for absorption of the M.Sc. old course students in the CBCS semester pattern course

It is notified for general information of all concerned that the authorities of this University have accepted to provide the Equivalence scheme for absorption of the M.Sc. old course students of 1) Mathematics, 2) Chemistry, 3) Geology, 4) Statistics, 5) Botany & 6) Bioinformatics in the CBCS semester pattern course shall be as per Appendices-A, B, C, D, E, & F respectively appended with this Notification

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University

APPENDIX-A

SCHEME OF EQUIVALENCE AND ABSORPTION FOR M.A./M.SC. PART-I & PART-II (MATHEMATICS)

M.Sc. Part-I (Semester-I)

Sr.No.	Old Papers	New Papers
1	Real Analysis (101) , (Paper-I)	Real Analysis (1 MTH-1) , (Paper-I)
2	Advanced Abstract Algebra-I (102) (Paper-II)	Advanced Abstract Algebra-I (1 MTH-2) , (Paper-II)
3	Complex Analysis-I (103) (Paper-III)	Complex Analysis-I (1 MTH-3) , (Paper-III)
4	Topology-I (104) (Paper-IV)	Topology-I (1 MTH-4) , (Paper-IV)
5	Differential Geometry (105) (Paper-V optional)	Differential Geometry (1 MTH-5) , (Paper-V optional)
6	Advanced Discrete Mathematics-I (106) (Paper-V optional)	Discrete Mathematics (1 MTH-6) , (Paper-V optional)
7	Differential and Integral Equation-I (107) (Paper-V optional)	Differential and Integral Equation-I (1 MTH-7) , (Paper-V optional)

M.Sc. Part-I (Semester-II)

Sr.No.	Old Papers	New Papers
1	Measure and Integration Theory (201) , (Paper-I)	Measure and Integration Theory (2 MTH-1) , (Paper-I)
2	Advanced Abstract Algebra-II (202) (Paper-II)	Advanced Abstract Algebra-II (2 MTH-2) (Paper-II)
3	Complex Analysis-II (203) (Paper-III)	Complex Analysis-II (2 MTH-3) (Paper-III)
4	Topology-II (204) (Paper-IV)	Topology-II (2 MTH-4) (Paper-IV)
5	Riemannian Geometry (205) (Paper-V optional)	Riemannian Geometry (2 MTH-5) (Paper-V optional)

6	Advanced Discrete Mathematics-II (206) (Paper-V optional)	Advanced Discrete Mathematics-II (2 MTH-6) (Paper-V optional)
7	Differential and Integral Equation-II (207) (Paper-V optional)	Differential and Integral Equation-II (2 MTH-7) (Paper-V optional)

M.Sc. Part-II (Semester-III)

Sr.No.	Old Papers	New Papers
1	Functional Analysis-I (Paper-I)	Functional Analysis-I (3 MTH-1) , (Paper-I)
2	Classical Mechanics (Paper-II)	Classical Mechanics (3 MTH-2) (Paper-II)
3	General Relativity Cosmology-I (Paper-III optional)	General Relativity Cosmology-I (3 MTH-3) (Paper-III)
4	Fluid Dynamics-I (Paper-IV optional)	Fluid Dynamics-I(3 MTH-4) (Paper-IV)
5	Operation Research-I (Paper-V optional)	Operation Research-I (3 MTH-5) (Paper-V optional)
6	Difference Equation-I (Paper-VI optional)	Difference Equation-I (3 MTH-6) (Paper-VI optional)
7	Fuzzy Sets and Application-I (Paper-VII optional)	Fuzzy Sets and Application-I (3 MTH-7) (Paper-VII optional)
8	Wavelet Analysis (Paper-VIII optional)	Wavelet Analysis (3 MTH-8) (Paper-VIII optional)
9	Banach Algebra-I (Paper-IX optional)	Banach Algebra-I (3 MTH-9) (Paper-IX optional)
10	Non-Commutative Ring-I (Paper-X optional)	Non-Commutative Ring-I (3 MTH-10) (Paper-X optional)

M.Sc. Part-II (Semester-IV)

Sr.No.	Old Papers	New Papers
1	Functional Analysis-II (Paper-I)	Functional Analysis-I (4 MTH-1) , (Paper-I)
2	Partial Differential equations (Paper-II)	Partial Differential equations (4 MTH-2), (Paper-II)
3	General Relativity Cosmology-I (Paper-III optional)	General Relativity Cosmology-I (4 MTH-3), (Paper-III)
4	Fluid Dynamics-II (Paper-IV optional)	Fluid Dynamics-II (4 MTH-4), (Paper-IV)
5	Operation Research-II (Paper-V optional)	Operation Research-II (4 MTH-5), (Paper-V optional)
6	Difference Equation-II (Paper-VI optional)	Difference Equation-II (4 MTH-6), (Paper-VI optional)
7	Fuzzy Sets and Application-II (Paper-VII optional)	Fuzzy Sets and Application-II (4 MTH-7), (Paper-VII optional)
8	Lie Group (Paper-VIII optional)	Lie Group (4 MTH-8), (Paper-VIII optional)
9	Banach Algebra-II (Paper-IX optional)	Banach Algebra-II (4 MTH-9), (Paper-IX optional)
10	Non-Commutative Ring-II (Paper-X optional)	Non-Commutative Ring-II (4 MTH-10), (Paper-X optional)

APPENDIX-B

SCHEME OF EQUIVALENCE AND ABSORPTION FOR M.SC CHEMISTRY FOR OLD COURSE INTO NEW COURSE

Sr. No.	Name of Examination	Old Paper No./ Pract. No.	Title of Existing Paper (Old Course) (A) Annual Pattern	Paper No. (New Course)	Title of the absorbed/ equivalent paper (New Course Paper) (B) Semester Pattern
1	M. Sc.- I (Chemistry)	I	Inorganic Chemistry	I& V	Inorganic Chemistry Co- ordination Chemistry
2	M. Sc.- I (Chemistry)	II	Organic Chemistry	II& VI	Organic Chemistry Organic Chemistry- II
3	M. Sc.- I (Chemistry)	III	Physical Chemistry	III& VII	Physical Chemistry- I Physical Chemistry- II
4	M. Sc.- I (Chemistry)	IV	General Chemistry	IV& VIII	Modern Methods of Separation Optical Methods and Environmental Chemistry
1	M. Sc.- II (Chemistry)	I	Spectroscopy	Sem-III Sem-IV	paper-IX, Spectroscopy- I paper-XIII, Spectroscopy- II
2	M. Sc.- II (Chemistry)	II	Analytical Chemistry	Sem- III Sem-IV	Paper-X, Analytical Chemistry-I: Thermal & Electro. Analytical Method. Paper-XIV, General analytical chemistry
3	M. Sc.- II (Chemistry)	III	Special paper I Inorganic Chemistry	Sem- III Sem-IV	Paper-XI, Inorganic chemistry (Bio-inorganic chemistry). Paper-XV, Inorganic chemistry (Photoinorganic & Organometallic Chemistry).
4	M. Sc.- II (Chemistry)	IV	Special paper II Inorganic Chemistry	Sem- III Sem-IV	Paper-XII, Inorganic chemistry (Solid state chemistry). Paper-XVI, Inorganic chemistry (Materials chemistry).
5	M. Sc.- II (Chemistry)	III	Special paper I organic Chemistry	Sem- III Sem-IV	Paper-XI, Organic chemistry (Organic synthesis-I). Paper-XV, Organic chemistry (Organic synthesis-II).
6	M. Sc.- II (Chemistry)	IV	Special paper II organic Chemistry	Sem- III Sem-IV	Paper-XII, Organic chemistry (Natural Product-I). Paper-XVI, Organic chemistry (Natural Product-II).
7	M. Sc.- II (Chemistry)	III	Special paper I Physical chemistry	Sem- III Sem-IV	Paper-XI, Physical chemistry (Special paper-I). Paper-XV, Physical chemistry (Special paper-III).
8	M. Sc.- II (Chemistry)	IV	Special paper II Physical chemistry	Sem- III Sem-IV	Paper-XII, Physical chemistry (Special paper-II). Paper-XVI, Physical chemistry (Special paper-IV).
9	M. Sc.- II (Chemistry)	III	Special paper I Industrial chemistry	Sem- III Sem-IV	Paper-XI, Industrial chemistry (Heat Transfer, unit Operations & Material Balances). Paper-XV, Industrial chemistry (Unit Processes)
10	M. Sc.- II (Chemistry) Semester-IV	IV	Special paper II Industrial chemistry	Sem- III Sem-IV	Paper-XII, Industrial chemistry (Processes Economics & Industrial Management). Paper-XVI, Industrial chemistry (Chemical Processes Industries).

Note:- 1) Equivalence for practical examination of M.Sc-I & II (Old Course) is not possible.

APPENDIX-C

SCHEME OF EQUIVALENCE & ABSORPTION OF FAILURES OF M.SC. GEOLOGY OLD COURSE. ANNUAL PATTERN (PART I & II) (75 MARKS) INTO SEMESTER CBCS PATTERN (80 MARKS) SEMESTER I, II,III & IV.

S.No	M.Sc. Geology Old Course Annual Pattern (Part I & II) 75 Marks each	Equivalence to Semester CBCS Pattern (80 Marks each) Semester I, II,III & IV
M.Sc.Part-I		
1	Paper-I, Remotesensing in Geology, Geomorphology, Structural Geology & Tectonics	Semester IV, Paper-XIII, Remotesensing & GIS (4GEO-1) Semester II, Paper-VIII, Geomorphology & Field Geology(2GEO-4) Semester I, Paper-II, Structural Geology & Tectonics(1GEO-2)
2	Paper-II, Igneous Petrology, Metamorphic Petrology & Geochemistry	Semester II, Paper-V, Igneous Petrology (2GEO-1) Semester II, Paper-VI, Metamorphic Petrology (2GEO-2) Semester I, Paper-III, Geochemistry & Analytical Techniques(1GEO-3)
3	Paper-III, Sedimentology, Paleaobiology & Stratigraphy	Semester II, Paper-VII, Sedimentology (2GEO-3) Semester III, Paper-IX, Stratigraphy (3GEO-1)
4	Paper-IV, Mineralogy, Instrumentation and Analytical Techniques, Ore Geology & Mining Geology	Semester I, Paper-I, Mineralogy (1GEO-1) Semester I, Paper-III, Geochemistry & Analytical Techniques (1GEO-3) Semester III, Paper-X, Ore Geology & Mining Geology (3GEO-2)
M.Sc.Part-II		
5	Paper-V, Hydrogeology	Semester III, Paper-XI, Hydrogeology (3GEO-3)
6	Paper-VI, Geophysical Exploration, and Engineering Geology	Semester III, Paper-XII, Exploration Methods (3GEO-4) Semester IV, Paper-XIV, Environmental Geology & Engineering Geology (4GEO-2)
7	Paper-VII, Fuel Geology and Environmental Geology	Semester IV, Paper-XVI, Petroleum and Coal Geology (4GEO-4) Semester IV, Paper-XIV, Environmental Geology & Engineering Geology (4GEO-2)
8	Paper-VIII, Special Paper, Advance Remote Sensing in Geosciences	Semester IV, Paper-XIII, Remotesensing & GIS (4GEO-1) Semester IV, Paper-XV, Indian Mineral Deposits and Mineral Economics (4GEO-3)

Note :- There is no change in the syllabus of Semester Pattern to Semester CBCS Pattern except in marks which need to be change from 50 to 80.

APPENDIX-D

SCHEME OF ABSORPTION OF OLD COURSE STUDENTS OF M. Sc. (STATISTICS) COURSE INTO CBCS SEMESTER PATTERN

Equivalence chart for absorption of the Old Course Students in the CBCS semester pattern course to be implemented from winter 2012 onwards

Abbreviations :

1. AP-OC-75 : Indicates Annual Pattern Old Course each paper of 75 marks (Max)
2. SP-OC-50 : Indicates Semester Pattern Old Course each paper of 50 marks (Max) (Non - CBCS)
3. SP-OC-80 : Indicates Semester Pattern Old Course each paper of 80 Marks (Max) (CBCS - OLD)
4. SP-CBCS-80:Indicates Semester Pattern Choice Based Credit System(CBCS -NEW)

Note : Proportionate score be calculated for the marks obtained by the examinee in the equivalent paper indicated in the following charts course wise.

Chart -1 : Equivalence and absorption of AP-OC-75 in SP-CBCS-80

S.N.	Old Course (75 MARKS) Annual Pattern	Equivalent to CBCS Semester Pattern (NEW)
	Before Summer 2008	W-2012-onwards
	AP-OC-75	SP-CBCS-80
	M.Sc.-I	
1.	Paper-I : Probability and Stochastic Processes	1 SCA-3 : Stochastic Processes & 2 SCA-1 : Advance Probability Theory
2.	Paper-II : Distributions and Multivariate Analysis	1 SCA-1 : Elementary Probability & Distribution Theory & 3 SCA-2 : Multivariate Analysis
3.	Paper-III : Statistical Inference -I	1 SCA-2 : Estimation Theory 2 SCA-2 : Testing of Hypothesis
4.	Paper-IV : Sample Surveys and Design & Analysis of Experiments	1 SCA-4 : Sampling Theory & 2 SCA-3 : Designs of Experiments
	M.Sc.-II	
5.	Paper-I : Statistical Inference -II	NOT APPLICABLE
6.	Paper-II : Operations Research	4 SCA-1 : Mathematical Programming (OR-I)
7.	Paper-III (C) : Econometrics	3 SCA- EI/II : 4 : Econometrics-I
8.	Paper-III (D) : Quality Control and Survival Analysis	NOT APPLICABLE
9.	Paper-IV (E) : Biostatistics	NOT APPLICABLE
10.	Paper -IV(F) : Time Series Analysis and Actuarial Statistics	4 SCA-E III/IV :5 Actuarial Statistics

Chart-2 : Equivalence and absorption of SP-OC-50 in SP-CBCS-80

S.N.	Old Course (50 Marks) Semester Pattern	Equivalent to CBCS Semester Pattern (NEW)
	2008 -2010	W-2012- Onwards
	SP-OC-50	SP-CBCS-80
1.	Paper-I : Elements of Mathematics & Measure Theory	NOT APPLICABLE
2.	Paper-II : Elementary Probability and Distribution Theory	1 SCA-1 : Elementary Probability and Distribution Theory
3.	Paper III : Estimation Theory	1 SCA-2 : Estimation Theory
4.	Paper IV : Sampling Theory	1 SCA-4 : Sampling Theory
5.	Paper V : Probability Theory	2 SCA-1 : Advance Probability Theory
6.	Paper VI : Stochastic Processes	1 SCA-3 : Stochastic Processes
7.	Paper VII : Testing of Hypothesis	2 SCA-2 : Testing of Hypothesis
8.	Paper VIII : Linear Models and Designs of Experiments	2 SCA-3 : Designs of Experiments
9.	Paper IX : Decision Theory and Non-parametric methods	3 SCA-1 : Advanced Statistical Inference
10.	Paper X : Multivariate Analysis	3 SCA-2 : Multivariate Analysis
11.	Paper XI: E I/II : 1 : Bioassay	3SCA-E I/II :1 : Bioassay
12.	Paper XI : E I/ II : 2 : Industrial Processes and Quality Control	3 SCA- E I/II : 2 : Industrial Statistics
13.	Paper XII : E I /II : 4 : Econometrics-I	3 SCA- E I/ II : 4 : Econometrics-I
14.	Paper XIII : Mathematical Programming (OR-I)	4 SCA-1 :Mathematical Programming (OR-I)
15.	Paper XIV : Computational Statistics	4 SCA-2 : Computational Statistics
16.	Paper XV : E III/IV : 1 Survival Analysis and Reliability Theory	4 SCA-E III/IV : 1 : Survival Analysis and reliability Theory
17.	Paper XV : E III/IV : 5 : Actuarial Statistics	4 SCA-E III/IV : 5 : Actuarial Statistics
18.	Paper XVI : E III/IV : 4 : Clinical Trials	4 SCA-E III/IV : 4 : Clinical Trials

Chart-3 : Equivalence and absorption of SP-OC-80 in SP-CBCS-80

S.N.	Old Course (80 Marks) Semester Pattern	Equivalent to CBCS Semester Pattern (NEW)
	W-2008 – S-2012	W-2012- Onwards
	SP-OC-80	SP-CBCS-80
1.	Paper-I : (1SCA-1)Elements of Mathematics & Measure Theory	NOT APPLICABLE
2.	Paper-II :(1SCA-2) Elementary Probability and Distribution Theory	1 SCA-1 : Elementary Probability and Distribution Theory
3.	Paper III : (1 SCA-3)Estimation Theory	1 SCA-2 : Estimation Theory
4.	Paper IV : (1 SCA-4) Sampling Theory	1 SCA-4 : Sampling Theory
5.	Paper V : (2 SCA-1)Probability Theory	2 SCA-1 : Advance Probability Theory

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6.	Paper VI : (2 SCA-2) Stochastic Processes	1 SCA-3 : Stochastic Processes
7.	Paper VII : (2 SCA-3)Testing of Hypothesis	2 SCA-2 : Testing of Hypothesis
8.	Paper VIII : (2 SCA-4) Linear Models and Designs of Experiments	2 SCA-3 : Designs of Experiments
9.	Paper IX : (3 SCA-1)Decision Theory and Non-parametric methods	3 SCA-1 : Advanced Statistical Inference
10.	Paper X : (3 SCA-2) Multivariate Analysis	3 SCA-2 : Multivariate Analysis
11.	Paper XI: E I/II : 1 : (3 SCA-3(1)) Bioassay	3SCA-E I/II :1 : Bioassay
12.	Paper XI : E I/ II : 2 : (3SCA-3(2))Industrial Processes and Control	3 SCA- E I/II : 2 : Industrial Statistics
13.	Paper XII : E I /II : 4 : (3 SCA-4)Econometrics-I	3 SCA- E I/ II : 4 : Econometrics-I
14.	Paper XIII : (4 SCA-1)Mathematical Programming (OR-I)	4SCA-1:Mathematical Programming (OR-I)
15.	Paper XIV : (4 SCA-2) Computational Statistics	4 SCA-2 : Computational Statistics
16.	Paper XV : E III/IV : 1: (4 SCA-3(1)) Survival Analysis and Reliability Theory	4 SCA-E III/IV : 1 : Survival Analysis and reliability Theory
17.	Paper XV : E III/IV : 5 :(4 SCA-3(2)) Actuarial Statistics	4 SCA-E III/IV : 5 : Actuarial Statistics
18	Paper XVI : E III/IV : 4 : (4 SCA-4)Clinical Trials	4 SCA-E III/IV : 4 : Clinical Trials

Note : When the above scheme of equivalence and absorption is implemented the additional chances provided earlier for old course be cancelled.

Appendix-E

SCHEME OF ABSORPTION OLD COURSE STUDENTS OF M.SC. (BOTANY)

Equivalence chart for absorption of the Old Course students in the CBCS semester pattern course to be implemented from Winter 2012 onwards.

Abbreviation :

1. AP-OC -75: Indicates Annual Pattern Old Course each paper of 75 marks (Max)
2. SP-OC-50: Indicates Semester Pattern Old Course each paper of 50 marks (Max)
3. SP-CBCS-80: Indicates Semester Pattern Choice Based Credit System (CBCS-NEW)

Note : Proportionate score be calculated for the marks obtained by the examinee in the equivalent paper indicates in the following charts course wise.

Chart -1 : Equivalence and absorption of AP-OC-75 in SP-CBCS—80

S.N.	Old Course (75 MARKS) Annual Pattern	Equivalent to CBCS Semester Pattern (NEW)
	Before Summer 2008	Winter 2012 onwards
	AP-OC-75	SP-CBCS-80
M.Sc. I		
1.	Paper –I : Cytology, Genetics and Molecular Biology	1 BOT-1 : Paper-I (CBCG-2161) 2 BOT 1 : Paper -V (CGMB-2171)
2.	Paper-II : Biology and Diversity of lower Plants : Cryptogams	1 BOT 3: Paper -III (BDAB-2163) 2 BOT 2: Paper-VI (BDMF-2172)
3.	Paper-III : Plant Development, Reproduction Resource Utilization	1 BOT 2: Paper-II (RUC – 2162) 1 BOT 4: Paper-IV (PDR-2164)
4.	Paper-IV : Plant Physiology and Metabolism	2 BOT 3: Paper –VII (Plant Physiology- 2173) 2 BOT 4:Paper –VIII (Plant Metabolism – 2174)
5.	Practical –I : Cytology, Genetics and Molecular Biology	Lab – I {Practical – I (CBCG+RUC-3001)} Lab-III {Practical –III (CGMB+BDMF -3003)}
6.	Practical- II : Biology and Diversity of lower Plants : Cryptogams	Lab-II {Practical –II (BDAB+PDR -3002)} Lab-V {Practical – V (BDPG+TOA- 3005)}
7.	Practical- III : Plant Physiology, Development Reproduction and Resource Utilization	Lab-IV {Practical –IV(Plant Phy.+Metab. -3004)} Lab- II {Practical – I (BDAB+PDR – 3002)}
M.Sc. II		
1.	Paper –I : Taxonomy and Diversity of seed Plants	3 BOT 1: Paper- IX (BDPG – 2181) 3 BOT 2: Paper –X (TOA – 2182)

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2.	Paper-II : Plant Ecology and Conservation	4 BOT 1 : Paper –XIII (Plant Ecology -2211) 4 BOT 2 : Paper- XIV (Env. Ecology – 2212)		
3.	Paper-III : Biotechnology and Genetic Engineering of Plants and Microbes	4 BOT 3: Paper- XV (Plant Biotech. -2213) 4 BOT 4: Paper – XVI (Genetic Eng. – 2214)		
4.	Paper-IV : Elective	Plant Tissue Culture	Elective PTC	3 BOT 3: Paper- XI (PTC- I – 2183) 3 BOT 4: Paper-XII (PTC-II -2184)
		Bioinformatics	BIO-Info.	3 BOT 3: Paper- XI (BIOinfo.- I –2185) 3 BOT 4: Paper-XII (BIOinfo.-II -2186)
		Angiosperm Taxonomy, Phytochemistry and Pharmacognosy	ATPP	3 BOT 3: Paper-XI (ATPP- I) 3 BOT 4: Paper-XII (ATPP –II)
		Advanced Plant Physiology & Biochemistry	APP & B	3 BOT 3: Paper- XI (APP&B - I) 3 BOT 4: Paper-XII (APP&B-II)
		Molecular Biology, Biotechnology & Plant Breeding	MBB & PB	3 BOT 3: Paper- XI MBB&PB- I) 3 BOT 4: Paper-XII (MBB&PB-II)
		Paleobotany (Evolutionary Botany)	PB (EB)	3 BOT 3: Paper- XI{ PB(EB)- I } 3 BOT 4: Paper-XII (PTC-II)
		Reproductive Biology of Angiosperm	RBA	3 BOT 3: Paper- XI (RBA- I – 2195) 3 BOT 4: Paper-XII (RBA-II -2196)
		Applied Mycology & Plant Pathology	AM &PP	3 BOT 3: Paper- XI (AM&PP- I) 3 BOT 4: Paper-XII (AM&PP-II)
5.	Practical-I : Taxonomy and Diversity of seed Plants	Lab- V {Practical –V (BDPG+TOA -3005)}		
6.	Practical- II: Plant Ecology, Biotechnology and Genetic Engineering	Lab- VII {Practical –VII-(PE +EE+BT+GE – 3007)} Lab- VIII (Project Work -3008)		
7.	Practical- III: Elective (Paper – IV)	Lab – VI (Practical as per Elective mentioned Above - 3006)		

Chart -2 : Equivalence and absorption of SP-OC-50 in SP-CBCS—80

S.N.	Old Course (50 MARKS) Semester Pattern	Equivalent to CBCS Semester Pattern (NEW)
	2008-10	Winter 2012 onwards
	SP-OC-50	SP-CBCS-80
M.Sc. I Semester- I		
1.	Paper –I : Cell Biology, Cytology& Genetics	1 BOT-1 : Paper-I (CBCG-2161)
2.	Paper-II : Resource Utilization & Conservation	1 BOT 2: Paper-II (RUC – 2162)
3.	Paper-III : Biology and Diversity of Algae & Bryophytes	1 BOT 3: Paper -III (BDAB-2163)
4.	Paper-IV : Plant Development & Reproduction	1 BOT 4: Paper-IV (PDR-2164)
5.	Practical –I : Cell Biology, Cytology & Genetics and Resource Utilization & Conservation	Lab – I {Practical – I (CBCG+RUC-3001)}
6.	Practical- II : Biology and Diversity of Algae & Bryophytes and Plant Development & Reproduction	Lab-II {Practical –II (BDAB+PDR -3002)}
M.Sc. I Semester- II		
7.	Paper – V : Cytogenetics and Molecular Biology	2 BOT 1: Paper –V (CGMB -2171)
8.	Paper- VI : Biology and Diversity of Microbes and Fungi	1 BOT 2: Paper-VI (BDMF-2172)
9.	Paper – VII : Plant Physiology	2 BOT 3: Paper –VII (Plant Physiology- 2173)
10.	Paper – VIII : Plant Metabolism	2 BOT 4:Paper –VIII (Plant Metabolism – 2174)
11.	Practical- III : Cytogenetics and Molecular Biology & Biology and Diversity of Microbes and Fungi	Lab-III {Practical –III (CGMB+BDMF -3003)}
12.	Practical -IV : Plant Physiology and Plant Metabolism	Lab-IV {Practical –IV(Plant Phy.+Metab. -3004)}
M.Sc. II Semester III		
1	Paper – IX : Biology and Diversity of Pteridophytes & Gymnosperms	3 BOT 1: Paper- IX (BDPG – 2181)
2	Paper- X : Taxonomy of Angiosperms	3 BOT 2: Paper –X (TOA – 2182)

3	Paper –XI : Elective I - 1. Plant Tissue Culture -I 2. Bioinformatics –I 3. Angiosperm Taxonomy, Phytochemistry and Pharmacognosy –I 4. Advanced Plant Physiology & Biochemistry -I 5. Molecular Biology, Biotechnology & Plant Breeding –I 6. Paleobotany (Evolutionary Botany –I 7. Reproductive Biology of Angiosperm –I 8. Applied Mycology & Plant Pathology –I	3 BOT 3: Paper- XI (PTC- I – 2183) 3 BOT 3: Paper- XI (Bioinfo.- I –2185) 3 BOT 3: Paper-XI(ATPP- I) 3 BOT 3: Paper- XI (APP&B - I) 3 BOT 3: Paper- XI MBB&PB- I) 3 BOT 3: Paper- XI{ PB(EB)- I } 3 BOT 3: Paper- XI (RBA- I – 2195 3 BOT 3: Paper- XI (AM&PP- I)
4	Paper –XII : Elective- II 1. Plant Tissue Culture -II 2. Bioinformatics –II 3. Angiosperm Taxonomy, Phytochemistry and Pharmacognosy–II 4. Advanced Plant Physiology & Biochemistry -II 5. Molecular Biology, Biotechnology & Plant Breeding –II 6. Paleobotany (Evolutionary Botany –II 7. Reproductive Biology of Angiosperm –II 8. Applied Mycology & Plant Pathology –II	3 BOT 4: Paper-XII (PTC-II -2184) 3 BOT 4: Paper-XII (Bioinfo.-II -2186) 3 BOT 4: Paper-XII (ATPP –II) 3 BOT 4: Paper-XII (APP&B-II) 3 BOT 4: Paper-XII (MBB&PB-II) 3 BOT 4: Paper-XII (PB(EB)-II) 3 BOT 4: Paper-XII (RBA-II -2196) 3 BOT 4: Paper-XII (AM&PP-II)
5	Practical –V : Pteridophyte , Gymnosperms and Taxonomy of Angiosperms	Lab-V {Practical – V (BDPG+TOA- 3005)}
6	Practical –VI : As per Electives-I & II mentioned Above	Lab – VI (Practical as per Electives-I & II mentioned Above - 3006)
M.Sc. II Semester IV		
1	Paper – XIII : Plant Ecology	4 BOT 1 : Paper –XIII (Plant Ecology -2211)
2	Paper –XIV : Environmental Ecology	4 BOT 2 : Paper- XIV (Env. Ecology – 2212)
3	Paper –XV : Plant Biotechnology	4 BOT 3: Paper- XV (Plant Biotech. -2213)
4	Paper –XVI : Genetic Engineering	4 BOT 4: Paper – XVI (Genetic Eng. – 2214)
5	Practical –VII : Plant Ecology, Environmental Ecology, Biotechnology and Genetic Engineering	Lab- VII {Practical –VII-(PE +EE+BT+GE – 3007)}
6	Practical – VIII : Project Work	Lab- VIII (Project Work -3008)

APPENDIX-F

SCHEME OF ABSORPTION OLD COURSE STUDENTS OF M.SC. (BIOINFORMATICS)

Equivalence chart for absorption of the old course semester pattern students in the CBCS semester pattern course to be implemented from Winter-2012.

Abbreviation:

1. SP-OC-50: Indicates Semester Pattern Old Course each paper of 50 marks (Max.).
2. SP-CBCS-80: Indicates Semester Pattern Choice Based Credit System (CBCS-New) each paper of 80 marks (Max.).

Note: Proportionate score should be calculated for the marks obtained by the examinee in the equivalence paper indicates in the following charts course wise:

Chart-1: Equivalence and absorption of SP-OC-50 in SP-CBCS-80

S.N.	Old Course (50 MARKS) Semester Pattern	Equivalence to CBCS Semester Pattern (New)
	After summer 2008-10	Winter 2012 onwards
	SP-OC-50	SP-CBCS-80
M.Sc. I Semester- I		
1.	Paper-I: Evolution, Systematics, Diversity and Genetics	Paper-VI: Genomics
2.	Paper-II: Cell and Molecular Biology	Paper-II: Cell and Molecular Biology
3.	Paper-III: Biochemistry and Biophysics	Paper-V: Biochemistry and Biophysics
4.	Paper-IV: Biostatistics and Applied Mathematics	Paper-I: Mathematics and Biostatistics
5.	Practical-I: Based on Paper I and II	Practical-I: Based on Paper VI and II
6.	Practical-II: Based on Paper III and IV	Practical-II: Based on Paper V and I

M.Sc. I Semester- II		
7.	Paper-V: Structural Biology	Paper-IX: System Biology
8.	Paper-VI: Computers for Biologists	Paper-III: Computers for Biologists
9.	Paper-VII: Bioinformatics-I	Paper-VI: Introduction to Bioinformatics
10.	Paper-VIII: Networks and Distributed Computing	Paper-XI: Bioprograming-I
11.	Practical-III: Based on Paper V and VI	Practical-III: Based on Paper IX and III
12.	Practical-IV: Based on Paper VII and VIII	Practical-IV: Based on Paper VI and XI
M.Sc. II Semester- III		
13.	Paper-IX: Data Structure and Programming Concepts	Paper-XV: Bioprogramming- II
14.	Paper-X: Physics and Chemistry for Biologists	Paper-XIV: Chemo-informatics
15.	Paper-XI: Bioethics and intellectual property rights and Java programming.	Paper-XVI: Research Methodology, IPR and Bioethics.
16.	Paper-XII: Relational database Management	Paper-VII: Biological Database Management
17.	Practical-V: Based on Paper IX and X	Practical-V: Based on Paper XV and XIV
18.	Practical-VI: Based on Paper XI and XII	Practical-VI: Based on Paper XIV and XVI
M.Sc. II Semester- IV		
19.	Paper-XII: Applications of Bioinformatics	Paper-XII: Parasite Informatics
20.	Paper-XIV: Genomics and proteomics	Paper-X: Proteomics
21.	Paper-XV: Bioinformatics-II	Paper-XI: Bioprogramming-I
22.	Paper-XVI: Molecular Modeling and Drug Designing	Paper-XIII: Molecular Modeling and Drug Designing
23.	Practical-VII: Based on Paper XII and XIV	Practical-VII: Based on Paper XII and X
24.	Practical-VIII: Based on Paper XV and XVI	Practical-VIII: Based on Paper XI and XII

Notification

No. 40/2013

Date : 2/5/2013

Subject : Continuation of Prospectus of Examinations in the faculty of Commerce.

It is notified for general information of all concerned that the syllabi prescribed for the session 2012-2013 and published vide prospectus Nos. mentioned against each examination under column No.3 of the following table shall continue for the examinations mentioned under column No.4 of the said table as it is or with changes notified under notification

TABLE

Sr.No.	Name of the Examination	Prospectus No.	Continued for Exam. as it is/with Notification/Ordinance/ Regulation/Direction No.
1	2	3	4
01	B.Com.Part-I	2013151	Continued for Summer-2014 Exam (As it is)
02	B.Com. Part-II	2013152	Continued for Summer-2014 Exam (Along with Notification No.35/2013)
03.	B.Com. Final	2013153	Continued for Summer-2014 Exam (Along with Notification No.15/2013)
04	M.Com. Semester-I&III- Winter-2012 Semester-II&IV-Summer-2013	2012154	Continued for Examinations of Semester-I &III-Winter-2013 & Semester-II&IV- Summer-2014 (Along with Notification No.34/2013)
05	D.B.M.	2011155	Continued for Summer-2014 Exam (As it is)
06	M.B.A. Semester-I&III - Winter-2012 Semester-II&IV -Summer-2013	2012156	Continued for Examinations of Semester-I-Winter-2013 & Semester-II-Summer-2014 (Along with Direction No. 37./2012)
07	M.I.R.P.M. Semester-I&III- Winter-2012 Semester-II&IV-Summer-2013	2012157	Continued for Examinations of Semester-I&III-Winter-2013 & Semester-II&IV-Summer-2014. (As it is)

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08	D.Tax	2013158	Continued for Summer-2014 Exam (As it is)
09	D.M.M.	2012159	Continued for Summer-2014 Exam (As it is)
10	M.Phil. (Comm)	20101510	Continued for Summer-2014 Exam (As it is)
11	D.F.M.	20131511	Continued for Summer-2014 Exam (As it is)
12	B.B.A.I,II & Final	20111512	Continued for Summer-2014 Exam (As it is)
13	M.C.M. Semester-I&III- Winter-2011 Semester-II&IV-Summer-2012	20111513	Continued for Examinations of Semester-I&III-Winter-2013 & Semester-II&IV-Summer-2014 (As it is)
14	Cert./Diploma/Adv. Diploma Exams.	20061514	Continued for Summer-2014 Exams (As it is)
15	Diploma in Actuarial Science.(D.A.S)	20131515	Continued for Summer-2014 Exam. (As it is)
16	Diploma in Banking and Insurance	20111516	Continued for Summer-2014 Exam. (As it is)
17	Diploma in Business Administration	20111517	Continued for Summer-2014 Exam. (As it is)
18	P.G.Diploma in E-Commerce	20111518	Continued for Summer-2014 Exam. (As it is)
19	P.G.Diploma in Computer Management Semester-I - Winter-2012 Semester-II -Summer-2013	20121519	Continued for Examinations of – Semester-I –Winter-2013 & Semester-II-Summer-2014 (As it is)
20	P.G.Diploma in Hospital Management Semester-I- Winter-2010 Semester-II-Summer-2011	20101520	Continued for Examinations of – Semester-I –Winter-2013 & Semester-II-Summer-2014 (As it is)
21	P.G.Diploma in Retail Management Semester-I - Winter-2012 Semester-II -Summer-2013	20121521	Continued for Examinations of – Semester-I –Winter-2013 & Semester-II-Summer-2014 (As it is)
22	P.G.Diploma in Insurance and Risk Management Semester-I - Winter-2012 Semester-II -Summer-2013	20121522	Continued for Examinations of – Semester-I –Winter-2013 & Semester-II-Summer-2014 (As it is)
23	P.G.Diploma in Preventive Environmental Management Semester-I - Winter-2010 Semester-II -Summer-2011	20101523	Continued for Examinations of – Semester-I&III –Winter-2013 & Semester-II&IV-Summer-2014 (As it is)
24	P.G.Diploma in Computer Commercial Applications	20131524	Continued for Summer-2014 Exam (As it is)
25	P.G.Diploma in Import and Export Management Semester-I - Winter-2012 Semester-II -Summer-2013	20121525	Continued for Examinations of – Semester-I –Winter-2013 & Semester-II-Summer-2014 (As it is)
26	Certificate Courses in P.G.T.D. of University	2008/Cert./1- 14	Continued for Winter-2013 Exams. (As it is)

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University

Notification

No. : 42 / 2013

Date : 9/05/2013

Subject : Continuation of Prospectus of First, Second & Third B.Pharm. (Sem-I,II; Sem-III,IV, Sem-V,VI.)

It is notified for general information of all concerned that the Prospectus of First B.Pharm.Sem-I,II (Prospectus No.2013144); Second B.Pharm.Sem-III,IV (Prospectus No.2012145), Third B.Pharm.Sem-V,VI (Prospectus No.2013146) prescribed for the academic session 2012-13 shall continue for the Session 2013-14 with following addition of book.

Sr. No.	Name of Book, author and publisher	Recommended for the Examination/Subject	Recommended as
1	Hand Book of Basic Human Physiology by Dr.H.D.Sing, Published by S.Chand and Co. Ltd., New Delhi.	B.Pharm. Sem-I & II/ Anatomy & Physiology-I,II	Reference Book
2	Essentials of Pharmacotherapeutics by F.S.K. Barar, Published by S.Chand and Co. Ltd., New Delhi.	B.Pharm. Sem-IV, V, VII Pharmacology-I, II & III	Reference Book

Sd/-
(Dineshkumar Joshi)
Registrar,
Sant Gadge Baba Amravati University,

NOTIFICATION

No. : 43/ 2013

Date : 9/05/2013

Subject : Continuation of Prospectus of B.Sc. (Home Science) Sem-I,II; Sem-III,IV; Sem-V,VI.

It is notified for general information of all concerned that the Prospectus of B.Sc. (Home Science) Sem-I, II (Prospectus No.2012191), Sem-III, IV (Prospectus No.2012192) Sem-V,VI (Prospectus No.2013193) prescribed for the academic session 2012-13 shall continue for the Session 2013-14 with following addition of book.

Sr. No.	Name of Book, author & publisher	Recommended for the examinations	Recommended as
1	Food, Nutrition and Health, by Dr.Shashi Goyal, Pooja Gupta; S.Chand and Co. Ltd., New Delhi	B.Sc. Sem-I for the subject "Food Chemistry". B.Sc.Sem-II to VI for the Subject "Food and Nutrition".	Text Book

Sd/-
(Dineshkumar Joshi)
Registrar,
Sant Gadge Baba Amravati University,

NOTIFICATION

No. : 44 / 2013

Date : 9/ 05/2013

Subject : Continuation of Prospectus of M.Sc. (Home Science) (Food Science and Nutrition) Sem-III,IV.

It is notified for general information of all concerned that the Prospectus of M.Sc. (Home Science) (Food Science and Nutrition) Sem-III,IV (Prospectus No.2012199) prescribed for the academic session 2012-13 shall continue for the Session 2013-14 with following addition of book.

Sr. No.	Name of Book, author & publisher	Recommended for the examinations	Recommended as
2	52 Simple ways to Prevent, Control and Turn off Cancer, by Man Mohan Sharma; S.Chand and Co. Ltd., New Delhi	M.Sc. Sem- IV (Food Science and Nutrition) for the subject "Current Issues in Food and Nutrition".	Reference Book

Sd/-
(Dineshkumar Joshi)
Registrar,
Sant Gadge Baba Amravati University,

Notification

No. : 45 / 2013

Date :9/05/2013

Subject : Additional chances for the failures of B.Sc.(Home Science)/M.Sc.(Home Science) annual pattern students.

It is notified for general information of all concerned that the authorities of the University have provided additional chances as given in following table for the failure students of B.Sc. Part-I & III (Home Science) and M.Sc. Part-I (Home Science) (all specializations) annual pattern students.

Sr.No.	Name of Examination	Chances already provided upto	Further additional chances provided upto
1	B.Sc.-I (H/Sc)	Summer-2013	Summer-2014
2	B.Sc.-III (H/Sc)	Winter-2013	Summer-2014
3	M.Sc.-I (H/Sc) (All Specializations)	Summer-2013	Summer-2014

Sd/-
(Dineshkumar Joshi)
Registrar,
Sant Gadge Baba Amravati University,

Notification

No. 46 /2013

Date :9/ 5/2013

Subject : Cessation of membership on the Senate.

It is notified for general information of all concerned that the membership of -

(i) Dr.R.P.Borkar, Govt. College of Engineering, Amravati, on the Senate under the provision of Section 25(2)(p) of the Maharashtra Universities Act, 1994 (hereinafter referred as the Act), now stands ceased w.e.f. 1.7.2011 (A.N.) in accordance with the provision of Section 43 of the Act, as he has been transferred from the said college; and

(ii) Shri J.S.Naik, Naik Bunglow, Gandhi Nagar, Pusad, Dist. Yavatmal on the Senate under the provision of Section 25(2)(m) of the Act, has been ceased w.e.f. 23.3.2013 in accordance with the provision of Section 48(2) of the Act.

By virtue of their membership on the Senate, membership acquired by them on any other authorities of the university shall also stand ceased.

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE



Official Publication of Sant Gadge Baba Amravati University

PART-TWO

Thursday, the 16th May, 2013

Notification

No. : 47 / 2013

Date : 16/5/2013

Subject : Continuation of Prospectus of various Examinations in the faculty of Home Science, for the Session 2013-14.

It is notified for general information of all concerned that the syllabi prescribed for the session 2012-2013 for the various Examinations in the faculty of Home Science as mentioned in column No.2 of the following table, bearing Nos. as mentioned in column No.3 of the said table shall continue for the session/examination/semester, as it is or with changes notified vide notification numbers as mentioned under column No.4 of the said table.

TABLE

Sr. No.	Name of Examination	Prospectus No.	Continued for Session /Examination/Semester (As it is / along with Notification No.)
1	2	3	4
1	B.Sc. (Home Science) Sem-I & II	2012191	Semester-I-Winter2013; Semester-II-Summer-2014 (Alongwith Notf.No.43/2013)
2	B.Sc. (Home Science) Sem-III & IV	2012192	Semester-III-Winter2013;Semester-IV-Summer-2014 (Alongwith Notf.No.43/2013)
3	B.Sc. (Home Science) Sem-V & VI	2013193	Semester-V-Winter2013;Semester-VI-Summer-2014 (Alongwith Notf.No.43/2013)
4	M.Sc. (Home Science) Sem-I to IV (Resource Management)	2012194	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
5	M.Sc. (Home Science) Sem-I to IV (Textile and Clothing)	2012195	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
6	M.Sc. (Home Science) Sem-I to IV (Human Development)	2012196	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
7	M.Sc. (Home Science) Sem-I to IV (Communication and Extension)	2012197	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
8	M.Sc. (Home Science) Sem-I to IV (Food Science and Nutrition)	2012199	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (Alongwith Notf.No.44/2013)
9	M. Phil. (Home Science)	10198	2014-2016 (As it is)
10	Cert.Courses in P.G.Deptt. of the Uni.	2008/Cert/1-14	Cert. course exams. for the Session 2013-14
11	B.Tech. Sem-I & II (Cosmetics)	20131910	Semester-I-Winter2013; Semester-II-Summer-2014 (As it is)
12	B.Tech. Part-III (Cosmetics)	071912	2013-14/Summer-2014 (As it is)
13	B.Tech. Part-IV (Cosmetics)	071913	2013-14/Summer-2014 (As it is)
14	M.Tech. (Cos. Tech.) Sem-I & II	20131914	Semester-I-Winter-2013; Semester-II-Winter-2014 (As it is)
15	M.Tech. (Qua. Ass.) Sem-I & II	20131915	Semester-I-Winter-2013; Semester-II-Winter-2014 (As it is)
16	M.Tech. (Per. & Colours) Sem-I & II	20131916	Semester-I-Winter-2013; Semester-II-Winter-2014 (As it is)
17	M.Tech. (Her.Cos.) Sem-I & II	20131917	Semester-I-Winter-2013; Semester-II-Winter-2014 (As it is)
18	P.G.Diploma in Event Management (Sem-I & II)	20121918	Semester-I-Winter-2013; Semester-II-Winter-2014 (As it is)
19	Bachelor in Fashion Designing Sem-I to IV	20121919	Semester-I,III & V-Winter2013; Semester-II,IV & VI-Summer-2014 (Alongwith Notf.No.103/2012)

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University

**SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE -2013- PART TWO -88
NOTIFICATION**

No. : 48 / 2013

Date : 16/5/2013

Subject : Continuation of Prospectus of Examinations in the faculty of Science, for the Session 2013-14.

It is notified for general information of all concerned that the syllabi prescribed for the session 2012-2013 for the various Examinations in the faculty of Science as mentioned in column No.2 of the following table, bearing Nos. as mentioned in column No.3 of the said table shall continue for the session/examinations/semester, as it is or with changes notified vide notification numbers as mentioned under column No.4 of the said table.

TABLE

Sr. No.	Name of Examination	Prospectus No.	Continued for Session /Examination/Semester (As it is / along with Notification No.)
1	2	3	4
1	B.Sc. Part-I	2013121	Semester-I -Winter2013; Semester-II – Summer-2014 (Along with Notf. No.146/2012 & 38/2013)
2	B.Sc. Part-II	2013122	Semester-III-Winter2013; Semester-IV–Summer-2014 (Along with Notf. No.147/2012)
3	B.Sc. Final	2013123	Semester-V -Winter2013; Semester-VI–Summer-2014 (As it is)
4	M.Sc.Sem-I to IV (Physics)	2013124	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
5	M.Sc.Sem-I to IV (Chemistry)	2012125	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
6	M.Sc.Sem-I to IV (Botany)	2013126	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
7	M.Sc.Sem-I to IV (Zoology)	2013127	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
8	M.Sc.Sem-I to IV (Microbiology)	2009128	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
9	M.Sc.Sem-I to IV (Mathematics)	2013129	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
10	M.Sc.Sem-I to IV (Computer Software)	20101210	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
11	M.Sc.Sem-I to IV (Environmental Science)	20131212	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
12	M.Sc. Sem-I to IV (Biotechnology)	20111214	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
13	M.Sc.Sem-I to IV (Electronics)	20131215	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
14	M.Sc. Sem-I to IV (Computer Science)	20131216	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
15	M.Sc.Sem-III & IV (Geology)	20091217	Semester-III-Winter2013; Semester-IV-Summer-2014 (As it is)
16	M.Sc.Sem-I to IV (Statistics)	20131218	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
17	P.G.Dip.in (1) Bioinformatics (2) Soil & Water Analysis	20091219	For the Session 2013-14 (As it is)
18	M.Sc.Sem-I to IV(Biochemistry)	20091220	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
19	B.C.A.Sem-I to VI	20131221	Semester-I, III & V-Winter2013; Semester-II, IV & VI-Summer-2014 (As it is)
20	P.G.Diploma in Web.Tech. & Advanced Multimedia (4 Semester)	20081234	For the Session 2013-14 for Sem-I to IV
21	Certificate/Diploma/ Advanced Diploma Course (i to xv)	20081235	For the Session 2013-14 & onwards.
22	P.G.Diploma in Biodiversity (4 Semester)	20101236	For the Session 2013-14 for Sem-I to IV (As it is)
23	M.Sc. Sem-I to IV (Geoinformatics)	20131237	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
24	M.Sc. (Remote Sensing and GIS)	20101238	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
25	P.G.Diploma in Watershed Tech. & Management (One Year)	20131239	For the Session 2013-14 for Sem-I & II.

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1	2	3	4
26	P.G.Dip. in Ground Water Exploration and Watershed Management (4 Sem.)	20131240	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
27	M.Sc. Sem-I to IV (Bioinformatics)	20131241	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
28	M.Sc. Sem-I to IV (Pharmaceutical Chemistry)	20111242	Semester-I & III-Winter2013; Semester-II & IV-Summer-2014 (As it is)
29	P.G.Diploma in Plant Tissue Culture	20111243	Sem-I – Winter-2013 Sem-II – summer-2014 (As it is)
30	P.G.Diploma in m-Learning and e-Learning	20131244	Sem-I – Winter-2013 Sem-II – summer-2014 (As it is)
31	P.G.Diploma in Non Conventional Energy System	20111245	Sem-I – Winter-2013 Sem-II – summer-2014 (As it is)
32	P.G.Diploma in i) Mechatronics, ii) Biomedical Electronics, iii) Computer Maintenance (Cyclostyled)	20131246	Sem-I – Winter-2013 Sem-II – summer-2014 (Alongwith Dir. No.5/2013 & Notf. No.36/2013)

Sd/-
(Dineshkumar Joshi)
Registrar
Sant Gadge Baba Amravati University
