

Sharnbasveshwar

College of Science Kalaburagi - 585103 (Karnataka)



ಶರಣಐಸವೇಶ್ವರ

ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ, ಕಲಬುರಗಿ-೫೮೫ ೧೦೩ (ಕರ್ನಾಬಕ)

Date :



Institutions Run by Centenary Celebrated Shambasveshwar Vidya Vardhak Sangha, Gulbarga Sharnbasva University, Gulbarga 2013 Shambasveshwar Vidya Vardhak Sangha, Guibarga 1903 Goduta Engineering College for Women, Gulbarga 2011 Appa Institute of Engineering & Technology, Guibarga 2002 Appa Institute of Engineering Science & Technology 2011 MTech. in Comp. & Digital Electronics 2010 Veerappa Nisty Engineering College, Shorapur 2011 Lingraj Appa Engineering College, Bidar Doddappa Appa Institute for MCA, Gulbarga 1999 Doddappe Appa Institute of MBA, Gulbarga 1998 Appa Institute of MBA (VTU) Guibarga 2007 10. Godutai Institute of MBA (For Women) Guibarga 2011 11. Lingarajappa Institute of MBA, Bidar 2011 12. Veerappe Nisty Institute of MBA, Shorapur 2011 2012 13. Appa Research Institute, Gulbarga (Recognized by Mysore University, Mysore) 1956 14. Shambasveshwar Science College, Gulbarga 15. Post Grouate studies in Computer Sciece 2012 Shambasveshwar College of Science, Gulbarga 2007 16. Post Grouzie studies in Master of Tourism Administration 5 year integrated Course (MTA) 17. Post Graduate Studies in Master of Arts in 2009 Immaism & Mass Communication, Godutal College Gub 18. Post Graduate Studies in Master of Fine Arts, 1957 Sharibasveshwar Arts College, Gulbarga 19. Stambasvestwar Residential Public School. 1967 with State & CBSC Syllabus, Gulbarga 20. Shambasva Public School Residential Indipendent 2011 Junior Science College, Shorapur. 21. Stanbasia Public School's Residential Indipendent 2011 Junior Science College, Bidar 2011 22. Stambasveshwar Anthenwani Community Radio (FM) Gulb. 2009 23. Mahadevi Girls Higher Primary School, Gulbarga 1934 1960 24. Mahadevi Girts High School, Gulbarga 1949 25. Stanbasvestwar Composite P.U. College, Gulbarga 26. Stambasvestwar Ind. P.U.College of Science, Gulbarga 1956 27. Shambasveshwar College of Commerce, Gulbarga 1961 with Post-Graduate Diploma in Business Management 28. SSK. Basveshwar College of Arts & Science, Basavakalyan 1957 1969 2. Shambasveshwar Printing & Publication, Gulbarga 30. Godutai Doddappa Appa P.U.College for Women, Guibarga 1971 1973 31. Godutai Doddappa Appa Arts & Commerce College for Women, Gulbarga 22. Stantasveshwar Granthavishwa Vidya Nilaya, Gulbarga 1978 1996 33. Shambasveshwar College of BBM, Gulbarga Dodtappe Appa Residential P.U. Science College, Gulbarga 1999 5. Multanbia Residential Ind. P.U. Science College 1999 For Girls, Gulbarga Godutai Doddappa Appa BCA College for Women, Gulbarga 2001 7. Muktambika Residential BCA College for Women, Gulbarga. 2001 2001 8. Doódappe Appa BCA College, Basavakalyan 2001 Stambesvestwar BCA College, Gubarga 1. Muktambika Residential BBM College, Gulberga 2004 1. Stanbasvestwar BBM College, Basavakalyan 2004 12. Godutai College of Education (B.Ed.), Gulbarga 2004 43. Shambasheshwar 8.Ed. (E.M.), Gulbarga 2004 4. Godulai D.Ed. College for Women, Gulbarga 2004 45. Komalatai Rasi, P.U. College for Girls, Basavakalyan 2006 45. Stantasvestwar Residential Public School, Basavakalyan 2006 17. Startiasveshwar D.Ed. College, Basavakalyan 2004 48. Doddappa Appa B.Ed. College, Basavakalyan 2004 49 Stanbasvestwar Public Library, Gulbarga 1918

(Affiliated to Gulbarga University, Kalaburagi and Recognised by the Government of Karnataka) ☎: (08472) 221941, • Fax : 08472-241492, email: sbcscg@rediffmail.com,www.sharnscience.org

Ref.	No	
To,		

The Under Secretary (FD-III)

University Grants Commission

New Delhi-110002

Sub: Submission of COC Chemical Analysis details report & Audited

Utilization Certificate during the academic Year 2016-17

Ref: Your Letter F.No4-347/2011(COC), dated 12.01.2012

Sir,

With reference to the above mentioned subject, I am herewith submitting Career Oriented Course-"Chemical Analysis" detail report & Audited utilization Certificate of Expenditure of grants received under UGC scheme of Career Oriented Course for the academic year 2016-17

Kindly acknowledge the receipt of the same.

Thanking you.

Yours Faithfully

PRINCIPAL

Encl:

- 1. UGC Sanction Letter
- 2. Approved Syllabus copy.
- 3. Students Enrolment list.
- 4. Result Sheet.
- 5. Utilization Certificate-Annexure-IV
- 6. Statement of expenditure-Annexure-V
- 7. Remuneration paid to coordinator/Teaching Staff-receipt.
- 8. List of Equipments /Books Purchased.

9. Xerox copies of Bills paid .



SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA-585103, KARNATAKA (Affiliated To Gulbarga University, Gulbarga)

Progress Report On Career Oriented Course - "Chemical Analysis"

For the academic year 2016-17

Approved By Gulbarga University Gulbarga & Sanctioned By



ज्ञान-विज्ञान विमुक्तये

University Grant Commission New Delhi-110002



UNIVERSITY GRANTS COMMISSION 35-FEROZSHAH ROAD <u>NEW DELHI-110 001</u>

F. No. 4- 347/2011(COC)

January, 2012 1 2 JAN 2012

The Under Secretary (FD-III) University Grants Commission New Delhi-110002

Sub: - Release of Grant-in-aid to Shri. Sharanabasaveshwar Science College, Gulbarga, Dist. Gulbarga, Karnataka-585103 under the UGC scheme of Career Oriented Courses-reg.

Sir,

1

With reference to the proposal submitted by Shri. Sharanabasaveshwar Science College, Gulbarga, Dist. Gulbarga, Karnataka-585103 under the UGC scheme of Career Oriented Courses, I am directed to convey the approval of the University Grants Commission for starting the following Career Oriented Courses ¹¹ in the above mentioned College from the academic year 2011-12.

Courses Approved	Seed Money approved (Rs. in lakh)	Grant released (90%)
Science		
1. Hardware and Networking	Rs. 10.00	Rs. 9,00,000/-
2. Chemical Analysis	Rs. 10.00	Rs. 9,00,000/-
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Total	Rs. 20.00	Rs. 18,00,000/-

I am also directed to convey the sanction of the University Grants Commission for payment of Rs. 18,00,000/- (Rupees Eighteen Lakh only) to the Principal, Shri. Sharanabasaveshwar Science College, Gulbarga, Dist. Gulbarga, Karnataka-585103 as 90% grant (Seed Money) under the scheme of Career Oriented Courses.

> FRINCIPAL SHARNBAGVESHWAR COLLEGE OF SCIENCE, GULBARGA

PRINCIPAL SHARNBASVESHWAR The assistance available in the programme is only in the form of a onetime as "Seed Money". The amount may be utilized for the purchase of books and journals augmentation of laboratory facilities, equipment and payment of remuneration to the Guest faculty only.

The terms and conditions of the approval and grant released are as per the guidelines of the scheme.

1. The sanctioned amount is dabitable to the following Heads and is valid for payment during the current financial year 2011-12.

S. No.	Component	Head of A/c	Amount
1.	General 77.5%	5.(i) Code No. 31	13,95,000/-
2.	SC 15%	1B h(i) (b) Code No. 31	2,70,000/-
3.	ST 7.5%	1B h(ii) (b) Code No. 31	1,35,000/-

- 2. The amount of grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer), University Grants Commission on the Grants -in -aid bill and shall be disbursed to the credited to the Principal, Shri. Sharanabasaveshwar Science College, Gulbarga, Dist. Gulbarga, Karnataka-585103 through Demand Draft/Mail Transfer.
- 3. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/College/Institution.
- 4. The University/College shall maintain proper accounts only on approved items of expenditure.
- 5. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it was sanctioned shall be furnished to the University Grants Commission On receipt of the same, 10% grant would be sanctioned to the grantee Institution.
- 6. The assets acquired wholly or substantially out of the University Grants Commission grant shall not be disposed or encumbered or Utilized for the purposes other than those for which the grant was given, without proper sanction of the University Grants Commission and should, at any time the college ceases to function, such assets shall revert to the University Grants Commission.
- 7. A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed form.
- 8. The grantee institution shall ensure the Utilization of grants-in-aid for which it is being sanctioned/paid. In case non-utilization/part utilization, the simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.



- 9. The University/ College shall implement the programme from the academic year 2011-12 positively and UGC to be informed in this regard.
- 10. The University/Institute/College is strictly following the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions 2009.
- 11. The interest earned by the University/College/Institute on this grants in aid shall be treated as additional grant and may be shown in the U.C./Statement of expenditure to be furnished by grantee institutions.
- 12. The University/College shall follow strictly all the instructions issued by the Govt. of India from time to time with regard to reservation of posts for scheduled Caste and Scheduled Tribes.
- 13. The University/College shall fully implement the Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Language (use for officially purpose of the Union) Rules, 1976 etc.
- 14. The Sanction issues in exercise of the delegation of powers vide Commission office order No. 25/92 dated May.01, 1992.
- 15. The Universities/ Colleges shall submit Annual Progress Report to the UGC office.
- 16. The Universities/ Colleges already running the Career Oriented Courses and completed 5 years would submit the audited utilization certificate/ statement of expenditure immediately to the UGC for settlement the accounts.
- 17. The funds to the extent are available under the scheme and have been noted in BCR for the year 2011-12 at S. No. Page No.

Yours faithfully,

(Sunita Chugh) Under Secretary

Copy forwarded for information and necessary action to:

- X. The Principal, Shri. Sharanabasaveshwar Science College, Gulbarga, Dist. Gulbarga, Karnataka-585103 to intimate the receipt of the letter as well as the receipt of the sanction grant.
- 2. The Secretary to the Government of Karnataka, Deptt. of Education, Bangalore.
- 3. The Registrar, Gulbarga University, Jnana Ganga, Gulbarga-585106.
- 4. Office of Director, General, Audit General Revenues, AGCR Bldg., I.P. Estate, New Delhi.
- 5. Guard File, UGC, New Delhi.

Justs (Usha Naidu) Section Officer

PRINCIPAL SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA PRINCIPAL SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARG



GULBARGA UNIVERSITY

Inana Ganga", GULBARGA - 585 106, Karnataka, India.

Time 08472-263202 08472-263206 Fax E-Mail: root @guluni kar me in Grams: UNIGUL

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ಅಧಿಸೂಚನೆ

ವಿಷಯ: 2012-13 ನೇ ಸಾಲಿನಿಂದ "Chemical Analysis of Water" COP ಕೋರ್ಸಿನ ಸ್ನಾತಕ ಕೋರ್ಸಿನ ಪಠ್ಯಕ್ರಮ ಜಾರಿಗೊಳಿಸುವ ಬಗ್ಗೆ. ಉಲ್ಲೇಖ: 1) ರಸಾಯನಶಾಸ್ತ್ರ ಸ್ನಾತಕ ಅಧ್ಯಯನ ಮಂಡಳಿ

- ನಿರ್ಣಯ (1) ದಿನಾಂಕ: 28.09.2012
- 2) ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ಗೊತ್ತುವಳಿ ಸಂಖ್ಯೆ 23 ದಿನಾಂಕ: 23.11.2012

ಉಲ್ಲೇಖ (2) ರ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ನಿರ್ಣಯದಂತೆ, "Chemical Analysis of

Water" ಸ್ನಾತಕ "Career Orientation Programme" ನ ಕೋರ್ಸಿನ ಪಠ್ಯಕ್ರಮವನ್ನು 2012-13ನೇ ಸಾಲಿನಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಈ ಮೂಲಕ ಪ್ರಕಟಗೊಳಿಸಲಾಗಿದೆ.

ಸದರಿ ವಿಷಯವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳ ಹಾಗೂ ಸಂಬಂಧಪಟ್ಟ ಶಿಕ್ಷಕರ ಗಮನಕ್ಕೆ.

SHARNBASVESHWAR

ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಗುಲಬರ್ಗಾ

ñ.

- 1) ಅಧ್ಯಕ್ಷರು, ರಸಾಯನಶಾಸ್ತ್ರ ಅಧ್ಯಯನ ಮಂಡಳಿ, ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಗುಲಬರ್ಗಾ.
- 2) ಸಂಬಂಧಪಟ್ಟ ಕೋರ್ಸು ಹೊಂದಿರುವ ಮಹಾವಿದ್ಯಾಲಯದ ಪ್ರಾಂಶುಪಾಲರಿಗೆ.

ಪತಿ:

- 1) ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಗುಲಬರ್ಗಾ,
- 2) ಕ್ರಾಲ್ಪತಿಗಳ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ / ಕುಲಸಚಿವರ ಆಪ್ತ ಸಹಾಯಕರ ಮಾಹಿತಿಗಾಗಿ.

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Se. 14

Certificate Course in Chemical Analysis Of Water One year course (Approved by GUG)

I Teaching

Theory: 4 hours per week (Paper- I & Paper- II).

Practical: 3hours per week(Practical- I) in first term.

Similarly 3hours per week(Practical- 11) in Second term.

The above work has to be completed within the academic year.

II Examination

Theory Paper- I and Paper- II of 3 hours duration each for 80 marks, internal assessment for 20 marks (conduct two tests and take average).

Practical- I and Practical- II of 3 hours for 50 marks each. (40 marks each for final examination and 10 marks each for internal assessment).

Ouestion paper pattern

Theory: Question paper contains three sections.

Section A: There shall be Fifteen bits of one mark each; candidate has to answer all (1x15=15).

Section B: There shall be seven questions of 5 marks each; candidate has to answer any Five. Total marks will be 25 (5x5=25).

Section C: There shall be six questions of 10 marks each; candidate has to answer any Four. Total marks will be 40 (4x10=40).

Practical: Distribution of practical marks

Experiment	Journal	Viva-voce	Internal assessment	Total marks
Practical-1 (30 marks)	05	05	10	50marks
Practical- II (30 marks)	05	05	10	50marks

Paper-I

General Chemical Analysis (64 hours)

1 SI units: Basic units, derived units, inter conversion of units 2 hours

2 Stoichiometry:

Mole concept, Avogadro number. Atomic weight, equivalent weight of elements, acids, bases, Molecular weight.Concept of Normality, molality and oxidizing agents and reducing agents. morality.

Volumetric techniques and Gravimetric techniques in brief. 10hours

3 Analytical chemistry:

Role of Analytical chemistry, types of analysis, classification of analytical methods, selecting an analytical method, factor affecting the analytical method, cleanliness and neatness in the analytical laboratory, laboratory note book and its importance, safety in the laboratory. 10hours

Laboratory Operations And Practices-4

Filtration, drying, measuring volume, stoichiometry and graphs, concentration, percentage solute, activity, titration of a solution, parts per thousand (ppt) and parts per million (ppm), standards, chemical standards, sample preparation, drying samples, weighing, dissolving, decomposition of organic matter, ionization, precipitation.

Analytical balances (electronic, mechanical, semi micro, micro), errors in weighing, cleaning glass apparatus, preparations before calibration operation, calibration of glassware.

16 hours

5 Sampling:

Sampling techniques, sampling statistics, variability in the sample, sample stability, field sampling. Sample preparation, sample decomposition and dissolution-decomposing samples with inorganic acids, microwave decomposing, decomposing organic samples, decomposing inorganic materials with fluxes, selecting and handling reagents. 10hours

Errors and evaluation: 6

Central value, mean, arithmetic mean, median, precision, standard deviation, accuracy, types of errors, minimizing errors, significant figures and computations, reporting of analytical data, evaluation of **O8hours** data, uses of statistics.

7 Computers in water analysis: Use of computers in the water analysis, handling analytical results, instrument control and signal processing, computer data bases for analytical information, laboratory **08hours** information management, laboratory computer systems.

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Books Recommended:

- Analytical Chemistry Dr Alka L Guptha, Pragathi Prakashan, Meerut. 1
- The Chemical Analysis of Water: General Principles and Techniques-2.
- DTE Hunt, Anthony Leslie Wilson
- 3. Fundamentals of Analytical Chemistry-D A Skoog, DM West, Holler and Crouch, Saunders publishing, Newvork.
- Qualitative Analysis- RA Day and AL Underwood, Prentice Hall, Inc, New Delhi. 4
- Instrumental methods of Chemical Analysis-Chatwal and Anand, Himalaya Publications. 5.
- 6. Modern Analytical Chemistry-Harvey, Harcourt Publishers.
- 7. Vogel's text book of Quantitative Chemical Analysis- J Mendham, RC Denney, Indian reprint Pearson Education Pvt, Ltd., New Delhi,
- Instrumental methods and Chemical Analysis-H Kaur, Pragathi Prakashan, Meerut. 8.
- 9. Text book of Quantitative Chemical Analysis-A I Vogel (ELBS)
- 10. Text book of Organic Chemistry-Bahl and Arun Bahl

Paper-II Water Analysis (64 hours)

1. Water as a component of environment:

Sources of water- atmospheric water, surface water, stored water, ground water, human use of water. 2hours

2 Water pollution:

Water pollutants, classification of water pollutants with explanation, origin of water pollutants, sources of water pollutants-Natural, domestic sewage, agricultural wastes, industrial wastes, radioactive wastes

Effect of water pollutants-physicochemical effects, biological effects, toxic effects, pathogenic effects. Types of water pollution-physical pollution, inorganic pollution, organic pollution, biological pollution, oil pollution, pesticide pollution, radioactive pollution. 10hours

3. Water quality standards:

Water quality standards related to public health, environment and agriculture-Drinking water standards, bacteriological standards, irrigation standards- salinity, water infiltration rate, specific ion toxicity, miscellaneous, sodium concentration, stream standards, effluent standards. Chemical and 12hours biological parameters for evaluation of aquatic environment.

4. Collection of Water samples:

Ruttner water sampler, Von Dorn water sampler, Thermos-flask water sampler, pump samplers. Collection of water samples for irrigation, Handling and preservation of water samples, collection of 06hours biological matter of water.

5. Physical analysis of water:

colour-platinum-cobalt method, Forel-Ule colour method, Movement, Temperature- measurement of surface temperature, measurement of sub-surface temperature, Odour and taste, Transparency, Turbidity. 06hours

6. Chemical analysis of water:

PH, conductivity, measurement of Electrical conductivity(soluble salts concentration), acidity, alkalinity, total dissolved salts, total solids, dissolved oxygen(oxygen meter method, Winkler's method), calcium by Versenate method (temporary hardness), calcium plus magnesium (total hardness), sodium and potassium, chloride, fluorides, sulphate, boron, free carbon dioxide, total carbon dioxide, hydrogen sulphide, silica, phosphates, total carbohydrate, dissolved carbohydrate, oil and grease. Biochemical Oxygen demand (BOD), Chemical Oxygen demand (COD). 12 hours

7. Analysis of Different Forms Of Nitrogen:

Ammonia, nitrite, nitrate, total organic nitrogen (TON), dissolved organic nitrogen (DON), (PON) present in water samples. nitrogen organic particulate 06hours

Instrumental Analysis of water: Applications of the following instruments in the physico-chemical 8. analysis of water-Uv solution spectro photometry and colorimetry, Flame emission spectrometry, Atomic-Absorption Spectrometry (AAS), Mass spectrometry, Infrared spectrometry, High performance liquid chromatography, PH-meter and turbidometry. 10hours

Books Recommended:

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- Methods in Environmental Analysis Water soil and air-PK Gupta 1.
- Water pollution-VP Kudesia, Pragathi Prakashan, Meerut. 2.
- Analytical Chemistry -Dr Alka L Guptha, Pragathi Prakashan, Meerut. 3.
- The Chemical Analysis of Water: General Principles and Techniques-4.
- DTE Hunt, Anthony Leslie Wilson,
- 5. Analytical Chemistry Vol I, II and III-Subhash and Sathish. Pragathi Prakashan. Meerut
- Instrumental methods of Chemical Analysis- Gurudeep R Chatwal and Anand, Himalaya Publications. 6.
- Chromatography -BK Sharma, GOEL Publications. 7
- 8. Basic concepts of Analytical Chemistry-SM Khopakr, New Age International Publications.
- 9. Standrd methods of Chemical analysis—FJ Welchar, Vol. I and II.
- 10. Electroanalytical Chemistry-BH Voigics, John Wiley Publications.

Practical-I

- 1. Introduction to the laboratory glass wares used in chemical analysis.
 - 2. Giving knowledge about laboratory note book and its importance, safety in the analytical laboratory, laboratory operations and practices.
- 3. Calibration of Burette, pipette, volumetric flask and fractional weights.
 - 4. Use of balances: rough, chemical and electronic balances.
- 11. Volumetric Analysis:

1.

- 1. Determination of total hardness (Ca & Mg) present in the water
- in the given water sample. 2. Estimation of alkalinity due to Sodium carbonate and bicarbonate
- 3. Determination of Acidity of a given water sample.
- 4. Determination of dissolved oxygen in the given water sample.
- 5. Estimation of Chemical Oxygen Demand
- 6. Estimation of amount of chloride present in the given water sample by using Mohr's method.
- 111 Gravimetric Analysis:
 - 1. Estimation of Mg as its axinate present in 250ml of given sample of water.
 - 2. Estimation of sulphate present in 250ml given solution using barium chloride.
 - 3. Estimation of Ca as calcium oxalate present in 250ml of given sample of water.

Practical-II

Identification of following ions present in the water sample by chemical tests. 1 Acid radicals- Carbonate, bicarbonate, chloride, fluoride, sulphate, nitrate magnesium, sodium and Basic radicals-copper, lead, cadmium, iron, zinc, calcium, potassium

- Instrumentation Exercises: 11
 - 1. Estimation of cu⁻² present in the given solution colorimetrically
 - 2. Estimation of CO⁻³ and HCO⁻¹ present in the given solution by P¹¹meter.
 - Determination of P^H of acetate buffer by potentiometrically.
 - 4. Determination of Ferrous ammonium sulphate using standard K₂Cr₂O₇, potentiometrically

Books Recommended:

- 1. Advanced Practical Inorganic chemistry-Gurudeep Raj(goel publications)
- 2. Advanced practical Physical Chemistry-JB Yadav
- 3. Instrumental methods of Chemical Analysis-Gurudeep chatwal and Anand(Himalaya publications)
- 4. Industrial Chemistry-BK Sharma((goel publications)
- 5. Practical Chemistry-OP Pandey, DN Bajpai(S Chand publications)
- A Text book of Quantitative chemical analysis-Al Vogel
- 6. A Text book of Qualitative chemical analysis-Al Vogel
- 7. Analytical Chemistry -Dr Alka L Guptha, Pragathi Prakashan, Meerut,
- The Chemical Analysis of Water: General Principles and Techniques-8.
- 9
- 10. College practical chemistry-Patel, Jakali, Mohandas, Israney, Turakhia(Himalaya Publishing House)

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Sharnbasveshwar College of Science, Gulbarga

Final List of the selected students for chemical analysis course - 2016-17

S.No	College Roll No.	Register No.	Name	Father name
1.	5	1537769	ASHWINI P	GURUBHIMARAYA
2.	7	1537772	AMARENDRA	BAAVARAJAYYA
3.	8	1537774	AMBIKA	ASHOKKUMAR
4.	10	1537776	AMBIKA	VISHWANATH REDDY
5.	15	1537781	BHAGYASHREE BADIGER	LAXMAN BADEGER
6.	30	1537798	KANAKA	PRAKASH
7.	31	1537799	LAXMI	AMRUTRAO PATTANSHETT
8.	40	1537808	Mahananda	Kallappa
9.	41	1537809	MALASHREE	BASAVARAJ MAINDARGI
10.	43	1537811	NEELAMBIKA	BASAVARAJ
11.	47	1537815	PREETI	BHEEMARAO PATIL
12.	49	1537817	POOJA S PATIL	SURESH PATIL
13.	50	1537818	POOJAYM	YESHWANT
14.	52	1537820	PREETI	MALLIKARJUN
15.	54	1537822	POOJA S M	SANGAYYA M
16.	61	1537830	ROOPA	RAVINDRA CHINCHOLI
17.	68	1537838	SUDHARANI	SURYAKANTH
18.	86	1537858	SHRUTIKA	SANGAMANATH SALAPOOR
19.	90	1537862	UMADEVI	MALLIKARJUN
20.	91	1537863	VAIBHAVI V K	VIJAYAKUMAR K
21.	92	1537864	VIDYASHREE	SHIVASHANKAR SARASAMB
22.	93	1537865	VIDYASHREE MALI	SHRIMANTH MALI
23.	198	1537941	ASHARANI	RAJKUMAR
24.	199	1537942	ANJALI P JOSHI	PANDURANG JOSHI
25.	200	1537943	ASMAT	HUSENSAB NADAF
26.	205	1537948	GEETA	SHREEMANT
27.	211	1537955	MAHMADAJURUDDEEN	IMAMASAB
28.	218	1537963	RAMESH J P	JATTAPPA P
29.	219	1537964	ROOPA S K	SHIVABASAPPA KANDGAL
30.	221	1537966	SANTOSHKUMAR B	SHIVAPPA
31.	224	1537969	SWATI	SHIVALINGAPPA
32.	225	1537970	SHILPA	NAGANNA
33.	233	1537981	VIJAYALAXMI	VENKATESH
34.	106	1538007	REBAI	SHRISHAIL DESAI
35.	239	1538029	MALLIANATH B	SHRISHAIL B
36.	242	1538032	PRIYANKA	VISHWANATHREDDY
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SHARNBASVESHWAR

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Sharnbasveshwar College of Science, Gulbarga

Result of UGC Sponsored (Gulbarga University Gulbarga Approved) COC course in Chemical Analysis, examination held in March-2017 is here by declared.

The candidates with following Register Number are passed with distinction.

College: C312 Sharnbasveshwar College of Science, Gulbarga

1537769	1537772	1537774	1537776	1537781
1537798	1537799	1537808	1537809	1537811
1537815	1537817	1537818	1537820	1537822
1537830	1537838	1537858	1537862	1537863
1537864	1537865	1537941	1537942	1537943
1537948	1537955	1537963	1537964	1537966
1537969	1537970	1537981	1538007	1538029
1538032				

Result Analysis

C312 Sharnbasveshwar College of Science, Gulbarga College: Department: Chemistry UGC Sponsored (Gulbarga University Gulbarga Approved) Course: COC course in Chemical Analysis.

Number of candidates registered for the course:	36
Number of candidates appeared for the examination:	36
Number of candidates passed the examination:	36
Percentage of passing:	100%

Coordinator Co-ordinator GC, Carrier Oriented Course (Chemical Analysis) Sharnbasveshwar College of Science. GULBARGA-3

PRINCIPAL SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARON



Ref:

SHIVASHARANAPPA & COMPANY Cell : +91-99863 10941

CHARTERED ACCOUNTANTS

Plot No. 2, Near Mahadevi Flour Mill, Udaya Nagar, Jewargi Colony KALABURAGI-585 102 - E-mail : s_hbiradar@yahoo.co.in - sharanu.ca2009@gmail.com

CA. Shivasharanappa H. Biradar

B.Com,ACA

Date :

UTILIZATION CERTIFICATE

It is to certified that the grant of **Rs.18,00,000**/-(Rupees Eighteen Lakh only) approved by the University Grant Commission for Career Oriented Courses in colleges for Hardware and Networking and Chemical Analysis has been utilized by the College as per details given in the University Grants Commission in its letter No-F.No.4-347/2011(COC) dated 12-01-2012 and that all these terms and conditions have been fulfilled by the college and the grant has been utilized for the purpose for which it was approved. It is further certified that the inventories of permanent or semi-permanent assets created/ acquired wholly or mainly out of the grants given by the University Grants Commissions as indicated above are being maintained in the prescribed form and are being kept up-to-date and these assets have not been disposed off, encumbered or utilized for any other purpose. If as a result of check or audit objection, some irregularity is noticed at a later stage, the college shall be bound to refund the amount objected to.

PLACE: KALABURAGI. DATE: 28-04-2017.

PRINCIPAL SHARNBASVESHWAR LEGE OF SCIENCE, GULBARGA



For SHIVASHARANAPPA & CO. CHARTERED ACCOUNTANTS

SHIVASHARANAPPA.H.BIRADAR. (PROPRIETOR)

SHARNBASVESHWAR COLLEGE **OF SCIENCE, GULBARGA**



SHIVASHARANAPPA & COMPANY

Cell: +91-99863 10941

CHARTERED ACCOUNTANTS Plot No. 2, Near Mahadevi Flour Mill, Udaya Nagar, Jewargi Colony KALABURAGI-585 102 - E-mail : s_hbiradar@yahoo.co.in - sharanu.ca2009@gmail.com

CA. Shivasharanappa H. Biradar

B.Com,ACA

Ref No.

1.Name of the College

: Sharanabasveshwar College of Science

Date :

: Hardware & Networking and Chemical Analysis.

2.No.& date of UGC's approval No.

Name of the Career Oriented Course

: F.No.4- 347/2011(COC) Dated 12-01-12

3.Period to which the accounts related:w.e.f: 01/04/2016 to 31/03/2017 Details of actual expenditure incurred of Rs.5,16,554-00,Grant approved Rs.20,00,000-00 and Grant released Rs.18,00,000-00 and excess expenditure of Rs.09-00 contributed by the college.

Particulars	Amount
I. Hardware & Networking	
a) Equipments / Chemicals	1,79,720-00
b) Books	12,266-00
c) Co Ordinator Remuneration	5,000-00
d) Remuneration to	
Guest Faculty	<u>75,000-00</u>
II.Chemical Analysis	
a) Equipments/Chemicals	1,64,568-00
b) Books	
c) Co Ordinator Remuneration	5,000-00
d) Remuneration to	75,000-00
Guest Faculty	
Total	5,16,554-00

PLACE:KALABURAGI. DATE: 28-04-2017.





SHARNBA

OF SCIENCE.

For SHIVASHARANAPPA & CO. CHARTERED ACCOUNTANTS

GULBARG

WAR COLLEGE

SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA-3

UGC Sponsored Career Oriented On <u>Chemical Analysis</u> (Affiliated to Gulbarga University, Gulbarga)

Academic Year 2016-17

EXPENDITURE

Sl	AMOUNT PAID	PARTICULARS	AMOUNT
NO.		TAKTICULARS	AMOUNT
01.	Ch.No391966, Dated:21-05-2016 for 17,200.00/-	Purchase of equipments	17,200.00
02.	Ch.No394863, Dated:18-03-2017 for 117673.00/-	Purchase of equipments	1,17,673.00
03.	Ch.No394864, Dated:26-03-2017 for 575.00/-	Net protector total security	575.00
04.	Dated30-03-2017 for 5,000.00/-	Remuneration to Coordinator	5,000.00
05.	Dated30-03-2017 for 75,000.00/-	Remuneration to Guest- Faculty	75,000.00
06.	Ch. No.394875, Dated 31-03-2017 For 29,120.00	Purchase of chemicals	29,120.00
Tota	al Expenditure in Two Lack Forty Sixty Eight		2,44,568.00

COORDINATOR Co-ordinator UGC, Carrier Oriented Course (Chemical Analysis) Sharnbasveshwar College of Science. GULBARGA-3.



PRINCIPAL SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA

DHANALAXMI ELECTRONICS

LG SHOPPE

A.K.Asian Grand, Opp.KEB Office,, Station Road, KALBURG1 - 585101, Phone :08472-233861

Tin No: 29130257912

DELIVERY CHALLAN CUM TAX INVOICE

Customer Name : THE PRINCIPAL SHARANBASAVESHWAR COLLAGE OF SCIENCE

Invoice No	1	LGS-351
Invoice Date	3	21-05-2016
Transport Mod	e:	AUTO

GULBARGA 08477-221941

	Model No	Description	Qty	Rate	Gross	Vat %	Vat	Net
No 1	GL-B221ASLS-DSLZEBN 602PRLU089656	215LTR SCARLET LILY	1	17200.00	15021.83	14.50	A mount 2178.17	Value 17200.00

Che. No: 391966 21.5.2011

(Swarupa Ran. H)

Co-ordinator UGC, Carder Oriented Course (Chemical Analysis) Sharnbasveshwar College of Science, GULBARGA-3.

	Total	1	15021.83	2178.17	17200.00
Amount in Words:	SEVENTEEN THOU	ISAND TWO HUNDREI	OONLY		
Narration :		PTUN	Band'		1
Terms & Conditions:		SHARNBAS	VESHWAR	Don	201
4. DD/Cheque to be dr 5. Bank Name : Bank of 6. Bank A/C No 13260 7. IFSC Code : BARB(8. E.Sugam	awn in favour of Dh of Baroda 500000481 OGULBAR	BOD Who FAL		PRINCIPAL ARNBASVESHV OF SCIENCE, G	VAR
Receiver's Sign, Date & S	Stamp	SHARNBABVESHM	NH BIHOKISED S	IGNATORT	

Balaji Traders

1/78/763E, Uppar Lane, Station Area- Gulbarga - 585 102

Dealers in : Scientific Instruments, Electrical, Physics Computer, Stationary, Drawing Materials, Lab-Chemicals, Glassware, Office Applince, Furniture & Novelties and all Institutional Supplies,

Cho. No : 394863

TAX INVOICE

Bill No.: BT/16-17/017

Date: 20-08-2016

18.03.2017

To The Principal, Sharanabasaveshwar College of Science. GULBARGA Dept. of Chemistry (COC)

Particulars SI.No. Qty. Amount Rate Equipments Refractometer Indian - For accurate 1. 1 No. 8900/-8900.00 measurement of indices of refraction transparent, liquids, solids and solutions. Measuring range 1.3000 to 1.7000, Measurement of sugar 0% to 95%. Complete in polished wooden box. 2. Stop watch racer 10 Nos. 475/-4750.00 3. Remi make Centrifuge machine 4 tube 2 Nos. 5600/-11200.00 Laboratory grade. 4. Electrical Bunsen burner KBB-2 14 Nos. 2600/-36400.00 5. Bunsen burner with stop cock 48 Nos. 225/-10800.00 6. Elico Make Digital Conductivity Meter with 2 Nos. 13620/-27240.00 conductivity Cell CC-03, Stand with cell holding clamp, instruction manual -Model CM-180 7. Stabilizer V-Guard 1KVA 2 Nos. 3250/-6500.00 8. Melting point apparatus Electrical 2 Nos. 2750/-5500.00 9. Hot and Cold air blower 2 Nos. 975/-1950.00 10. 950/-Infra Red Lamp - Complete with cord & 1 No. 950.00 stand Total 114190.00 Disc. 10% 11419.00 102771.00 Vat 14.5% 14901.79 Co-ordinator G. Total 117672.79 Crures (Chemical Analysi ower College of Science, Round off 117673.00 AL AVA

IN WORDS: Rs. ONE LAKHS SEVENTEEN THOUSAND SIX HUNDRED & SEVENTY THREE ONLY

TIN No. 26351291632



OLLEGE OF SCIENCE, GULBARGE

SHARNBASVESHWAR For Balaji TradersHARNBASVESH I. Interest at 18% will be charged if the billiont POPEOFECTENDE, GULDARGA 2. Our responsibility ceases when the goods are handed over to carriers and receipt obtained. Autho. Signatory

Resettent of Sharanabasaveshwar College J. Selone

Flipkart Contact us: 1800 208 9898 || cs@flipkart.com Tax Invoice # F00!400917-00030724 Beyond Toys And Gifts, Warehouse Address: Blocks B6 B8 Acorn Logistics and Industrial Complex, located at Drive Anjur Village, Opp Drive Petrol pranp. NH-3, Mumbat - Nashik Higirway Bhiwandi (Dist.), Mumbai, Maharashtra, INDIA - 421302 rder ID: OD208401078585562000 **Billing Address** Shipping Address Mahantappa Limbitot rder Date: 15-02-2017 Mahantappa Limbitot S.B.College of Science, Gulbarga, voice Date: 16-02-2017 S.B.College of Science, Gulbarga, "Keep this Involce and Vidya Nagar. Vidya Nagar. manufacturer box for Gulbarga 585103 Karnataka T/TIN: 27250946579 Gulbarga 585103 Karnataka warranty purposes. Phone: 9845217424 Phone: 9845217424 T#: 27250946579 Title oduct Price (₹) Tax (₹) Qty Total (₹) Net Protector Total Security 2016 al Security 1 547.62 27.38 575.00 5.00% CST CEF6HMJZFUGRAA Total 1 547.62 27.38 575.00 Grand Total ₹ 575.00 This is a computer generated invoice. No signature required. C.O.P 394864 SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA H Swarya Rani.) Charges to the second Co-ordinator UGC, Carrier Oriented Course (Chemical Analysis) Shambasvestimes thread a butence GLEBERGA AREADS Sharnbasveshwar College of Science, GULBARGA-3. PRINCIPAL re hereby certify that our registration certificate under the Maharante Water Added Tax Act, 2002 is in force on the date on which the le of the goods specified in this tax invoice is manally ES and that the transaction of sale covered by this tax invoice has been effected us and it shall be accounted for in the turnover of sales while filling of return and the due tax, if any, payable on the sale has been paid shall be paid". Thank You! eturns Policy: At Flipkart we try to deliver perfectly each and every time. But in the off-chance that you need to return the item, please do so with the original Brand ox/price tag, original packing and invoice without which it will be really difficult for us to act on your request. Please halo us to behave you Terme

ANNEXURE-2	IC YEAR 2016-17	, GULBARGA			Signature	- Japan	NOA	- Alerto	A A A		2		VAR SULBARGA
	MME DURING THE ACADEM	: SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA	IALYSIS	: F No.4-347/2011(COC) JAN.2012	Total amount paid to faculty member in Rs	62,500	. 8,500	2,500	1,500	75,000	5,000	80,000	Principal Principal PRINCIPAL SHURTISHWAR SHURTISHWAR SHURTISHENCE, GULBARGA
	CAREER ORLENTED PROGRA (UGC XI-PLAN)	: SHARNBASVE	: CHEMCAL ANALYSIS		No. of (Theory & Practical) periods taken @ 250/- per period	250	34	10	90	300 periods	Remuneration to the programme coordinator		COLLEGE OF SCIENCE, GULBARON
	REMUNERATION PAID TO FACULTY MEMBERS FOR CAREER ORIENTED PROGRAMME DURING THE ACADEMIC YEAR 2016-17 (UGC XI-PLAN)	NAME OF THE COLLGE	» NAME OF THE PROGRAMME	GRANT SANCTION LETTER NO.	Name of Faculty members	Miss. Gouramma Patil	Mr. Siddaram Patil	Miss. Shaila H.K	Miss. Babita Phand	Total amount dispersed to the faculty members	Dr Swaruprani. H.	TOTAL	Course coordinator
	RE				S.No	01	02	03	04		05		C
													1
						19							



Balaji Traders

TIN: 26351291632



Dealers in : Scientific Instruments, Electrical, Physics Computer, Stationary, Drawing Materials, Lab-Chemicals, Glassware, Office Applince, Furniture & Novelties and all Institutional Supplies,

TAX INVOICE

Bill No.: BT/16-17/019/1

Date: 22-08-2016

31.03.2017

Ch. NO: 394875

To The Principal, Sharanabasaveshwar College of Science, GULBARGA Dept. of Chemistry

SI.No.	Particulars	Qty.	Rate	Amount
	Chemicals	No. A.		
1.	Potassium Iodide	4x500gm	5501/-	22004.00
2.	Benzene	11x500ml	336/-	3696.00
3.	Sulphuric acid	4x2.5 Ltr.	812/-	3248.00
4.	Acetone	7x2.5 Ltr.	1182/-	8274.00
5.	Hydrochloric acid	4x2.5 Ltr.	528/-	2112.00
	Test tube 15x125mm	7 Nos.	14/-	98.00
			Total	39432.00
			Disc. 30%	11829.60
				27602.40
		and the second second	Vat 5.5%	1518.13
			G. Total	29120.53
		100 M 100	Round off	29120.00

IN WORDS: Rs. TWENTY NINE THOUSAND ONE HUNDRED & TWENTY ONLY



GULBARGA-3.

SHARNBASVESHWAR COLLEGE OF SCIENCE, GULBARGA SHARNBASVESHWAR

OLLEGE OF SCIENCE, GULBARGA

TIN No. 26351291632

Department of Chemistry

1. Interest at 18% will be charged if the bill is no paid on the due date. 2. Our responsibility ceases when the goods are handed over to carriers

and receipt obtained.

For Balaji Traders

Autho. Signatory