


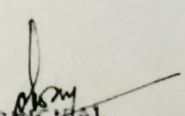
**ACTION TAKEN REPORT BY THE UNIVERSITY**

This is to certify that, during the assessment period, the experience and expertisation of some of the senior faculty members were included in the panel of BoS as members, Gulbarga University. Following is the list highlighting the impact of the suggestions / recommendations of stakeholders communicated through panel members of BoS to the Gulbarga University.

Sl. No.	Name of the Faculty	Date of Meeting	Suggestions	Action Taken Report by University	Pg. No.
1.	Dr.N.S. Jayateertha Associate Professor, Department of Chemistry.	26.09.2022	(1) Suggested for the reduction of course content on Open Elective Chemistry-III & IV semester of NEPsylabus.	20% of the course content was reduced by the BoS.	1 - 4
		15.03.2022	(2) Requested to enhance the practical hours in chemistry subject under Open Elective course.	Accordingly, University has increased the practical hours from 2 hours to 3 hours w.e.f. the academic year 2023-24.	
2.	Dr.M.Veereshappa Associate Professor, Department of Electronics.	13.02.2021 (virtual)	Requested to introduce 2 more elective papers in CBCS pattern of curriculum for BSc.-V & VI Sem.	The BoS, PG Department of Electronics, approved the suggestions and implemented DSE-1B for V Sem and DSC-4B for VI semester.	8 - 14
3.	Dr.Vidya Patil Management Full time Teacher Department of Microbiology	12.10.2019	Suggested for modification in Microbiology subject under CBCS.	Approved the suggestions and implemented by the University accordingly.	15
4.	Dr. Kamala Navaratna Management Full time Teacher Department of Microbiology	23.11.2020	-do-	-do-	16 - 21
		23.11.2020	Reviewed the Question Paper pattern under CBCS pattern and suggested for	Implemented accordingly.	


Co-ordinator
Internal Quality Assurance Cell (IQAC)
Laxmi Venkatesh Desai College, RAICHUR-03.




PRINCIPAL
L.V.D. College, RAICHUR-03.



Taranath Shikshana Samsthe

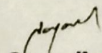
LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.



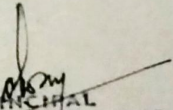
Re-Accredited by NAAC with B Grade

			<i>further modification.</i>		
		10.03.2022	<i>Suggested the inclusion of unit wise course content under NEP pattern of course curriculum.</i>	Implemented accordingly.	

5.	Dr. Prashantkumar Asstt. Prof. Department of Botany.	09.03.2023	<i>Suggested for modification in question paper under NEP</i>	As per the newly designed pattern of the question paper by the member, is implemented by the University effectively.	22 – 24
6.	Shri. Venkatesh Asstt. Prof. Department of Education	07.09.2021	<i>Requested for inclusion of topic under NEP pattern of course curriculum.</i>	Implemented the suggestions made by the member.	25 – 31


Co-ordinator
Internal Quality Assurance Cell (IQAC)
Laxmi Venkatesh Desai College, RAICHUR-03.





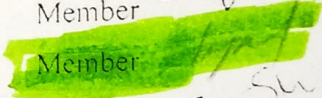

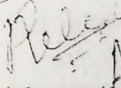
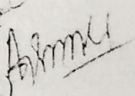

PRINCIPAL
L.V.D. College, RAICHUR-03.

GULBARGA UNIVERSITY, KALABURAGI
(DEPARTMENT OF STUDIES AND RESEARCH IN CHEMISTRY

Proceedings of Board of Studies (Under Graduate Board) Meeting in Chemistry held on
26-09-2022 at 09.30 a.m. in the Department of Chemistry, Gulbarga University, Kalaburagi

The following members were present:

- 1. Prof. K. Siddappa
- 2. Prof. Jagadesh Prasad
- 3. Prof. K. Mohan
- 4. Prof. J. Seetharamappa
- 5. Dr. P. Vithal Reddy
- 6. Dr. N. S. Jayateertha
- 7. Dr. C.M. Sutar
- 8. Dr. Basavaraj Bilagi
- 9. Anilkumar V Andure

- Chairman 
- External Member
- External Member
- External Member
- Member 
- Member 
- Member 
- Co-opt member 
- Co-opt member (Retd. Dr. ShirKargol) 

The following resolutions were made:

- 1. B.Sc. Chemistry IIIrd and IVth NEP-2020 Syllabus and Open Elective Papers Approved
- ✓ 2. Board of Examiners for B.Sc. I to VI Semester course in Chemistry is prepared and approved.
- ✓ 3. The list of panel of examiners was updated for B.Sc. I to VI Semester course in Chemistry. The list was approved.

GULBARGA UNIVERSITY, KALABURAGI
(DEPARTMENT OF STUDIES AND RESEARCH IN CHEMISTRY)

Proceedings of Board of Studies (Under Graduate Board) Meeting in Chemistry held on 15-03-2022 at 10.30 a.m. in the Department of Chemistry, Gulbarga University, Kalaburagi

The following members were present:

- | | |
|----------------------------|-----------------|
| 1. Prof. K. Siddappa | Chairman |
| 2. Prof. Jagadesh Prasad | External Member |
| 3. Prof. K. Mohan | External Member |
| 4. Prof. J. Seetharamappa | External Member |
| 5. Dr. R. K. Shikkargol | Member |
| 6. Dr. P. Vithal Reddy | Member |
| 7. Dr. N. S. Jayateertha ✓ | Member ✓ |
| 8. Dr. C.M. Sutar | Member |

The following resolutions were made:

- Board of Examiners for B.Sc. I to VI Semester course in Chemistry is prepared and approved. ✓
- The list of panel of examiners was updated for B.Sc. I to VI Semester course in Chemistry. The list was approved.
- The applications of the following candidates are considered for including their names in the U.G. B.O.E. panel Added.
 - Smt. Parvati N Govindrao Muley Arts, Science and Commerce Naubad
 - Umesh B. Saidnoor Govt College Chitaguppa
 - Dattatri Patil, Shree Sai Chaitanya, Degree College, Kalaburagi
 - Mr.Siddharam Patil, S.B. Science College, Kalaburagi
 - Ambika swamy, Govt First Grade College, Naubad
 - Archana M, Govt First Grade College Naubad
 - Dr. Vivekanand , Govt First Grade College Naubad
 - Shweta Raga, Govt First Grade College Naubad
 - Ashalata , Govt First Grade College Naubad
 - Md. Asim, Govt First Grade College Naubad
 - Salomi Anankumar, Karnatak Arts, Science and Commerce Bidar
 - Anuradha Surrender, Karnatak Arts, Science and Commerce Bidar
 - Rajashri G Sarasambi, Govt First College Afzalapur
- Regular practical to be of 3 hrs instead of 2 hrs
- Introduce practical's in O.E. for 3 hrs
- Scheme of marking for practical

Sutar
15/3

Jagadesh Prasad
15/3/22

Prasad
15/3/22

Chairman
15/3/22

PROFESSOR & CHAIRMAN
Department of P.G. Studies & Research in Chemistry
Gulbarga University, KALABURAGI-585 106

GULBARGA UNIVERSITY, GULBARGA
(DEPARTMENT OF STUDIES AND RESEARCH IN CHEMISTRY)

No.GUG/CHEM/2022-23/

Date: 17.04.2023

From:

Prof. A. R. Saundane
Professor and Chairman
Chairman BOS in Chemistry
Dept of Chemistry,
Gulbarga University, Kalaburagi-585 106

3

To,

Dr. N. S. Jayateertha

L. V. D. College

Raichur

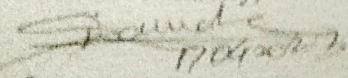
Sub: Meeting Notice of U.G./B.O.S in Chemistry of Gulbarga University,
Kalaburagi-reg.

Sir

The BOS in Chemistry (U.G) is scheduled to be held on 20th April, 2023 at 10.30 a.m., at Chairman's Office, Department of Chemistry, Gulbarga University, Kalaburagi. You are requested to make it convenient to attend the meeting and help us in conducting the proceedings.

You will be paid TA/DA as per university rules. Your accommodation is arranged in the University Guest House.

Yours faithfully,


17/04/2023
Professor and Chairman
PROFESSOR & CHAIRMAN
Department of P.G. Studies & Research in Chemistry
Gulbarga University, KALABURAGI

Under Graduate BOS meeting on Agenda.

1. Reviewing of the Question papers of the B. Sc Chemistry Course of all Branch Ist to VIth Semesters
2. Preparation of the panel of examiners of B. Sc. Course in Chemistry.
3. Any other matter with the permission of the Chair.

Copy to:

The Registrar (ACA), Gulbarga University, Gulbarga for information with a request to make necessary arrangements for the payment of TA/DA for BOS members.

GULBARGA UNIVERSITY, GULBARGA
(DEPARTMENT OF STUDIES AND RESEARCH IN CHEMISTRY)

No.GUG/CHEM/2022-23/

Date: 21.03.23

From:

Prof. A. R. Saundane
Professor and Chairman
Chairman BOS in Chemistry
Dept of Chemistry,
Gulbarga University, Kalaburagi-585 106

To,

Dr. N. S. Jayateertha

L. V. D. College

Raichur,

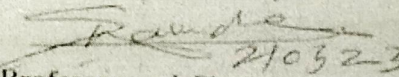
Sub: Meeting Notice of U.G/B.O.S in Chemistry of Gulbarga University,
Kalaburagi- reg.

Sir

The BOS in Chemistry (U.G) is scheduled to be held on 31th March, 2023 at 10.30 a.m., at Chairman's Office, Department of Chemistry, Gulbarga University, Kalaburagi. You are requested to make it convenient to attend the meeting and help us in conducting the proceedings.

You will be paid TA/DA as per university rules. Your accommodation is arranged in the University Guest House.

Yours faithfully,


21/03/23
Professor and Chairman

PROFESSOR
Department of P.G. Studies & Research in Chemistry
Gulbarga University, KALABURAGI-585 106

Under Graduate BOS meeting on Agenda.

1. Reviewing of the Question papers of the B. Sc Chemistry Course of all Branch 1st to VIth Semesters
2. Preparation of the panel of examiners of B. Sc .Course in Chemistry,
3. Any other matter with the permission of the Chair.

Copy to:

The Registrar (ACA), Gulbarga University, Gulbarga for information with a request to make necessary arrangements for the payment of TA/DA for BOS members.



GULBARGA UNIVERSITY,

"Jnana Ganga", Kalaburagi-585 106, Karnataka

Office No.: 08472-263202 Fax: 08472-263206, E-mail : registrarug@rediffmail.com



Date: 8.9.2020

5

No.GUK/ACA/BOS/2020-21/ 373

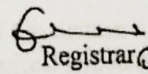
NOTIFICATION

Sub: Constitution of Board of Studies in Applied Electronics -reg.

- Ref: 1. Syndicate Resolution No. 7 Dated: 04.07.2020
 2. Vice-Chancellor's approval Dated: 05.08.2020

As per the proposal given by the Chairman of the Department, the Board of Studies in Applied Electronics (Post Graduate and Under Graduate) is to be constituted for the period of three years from 2020-21 to 2022-23 as per the provision under the statute 4 (III) governing the constitution of Board of studies with the following Internal and External Members.

POST GRADUATE			UNDER GRADUATE		
1.	Prof. S.N. Mulagi Dept. of Applied Electronics Gulbarga University, Kalaburagi	Chairman	1.	Prof. S.N. Mulagi Dept. of Applied Electronics Gulbarga University, Kalaburagi	Chairman
2.	Prof. P.V. Hunagund Dept. of Applied Electronics Gulbarga University, Kalaburagi	Member	2.	Sri. R.H. Patil Associate Professor, C.B. College, Bhalki -585328	Member
3.	Prof. R.L. Raibagkar Dept. of Applied Electronics Gulbarga University, Kalaburagi	Member	3.	Smt. S.R. Bharati, Asst. Professor, N.V. Degree College, Kalaburagi	External Member
4.	Dr. D.L. Holkar Dept. of Applied Electronics Gulbarga University, Kalaburagi	Member	4.	Dr. M. Veereshappa, Associate Professor, L.V.D Degree College, Raichur	External Member
5.	Dr. R.M. Vani Head, USIC, Gulbarga University, Kalaburagi	Member	5.	Dr. Manjesh Associate Professor, Dept. of Electronics Science Bangalore University, Bangalore	External Member
6.	Prof. H.M. Mahesh Dept. of Applied Electronics Science, Bangalore University, Jnanabharathi Campus, Bangalore - 560056	External Member	6.	Prof. S.S. Suryavanshi Dept. of Electronics, Solapur Pune Highway, Near Keagoan, Solapur University, Solapur 413255	External Member
7.	Prof. S.V. Halse Professor and Vice-Chancellor, Davanagere University, Shivagangotri, Davanagere -577002	External Member			


Registrar 08/9/20

Gulbarga University, Kalaburagi

Note: As per the Board of studies - 4(V), the Chairman of the Department of Electronics concerned shall be the Ex-officio Member and Chairman of such Board of Studies.

To: The Chairman and Member of the Board of Studies.

Copy to:

1. Dean Faculty of concerned.
2. Registrar of all the University in the Karnataka State.
3. The Registrar, (Evaluation) Gulbarga University, Kalaburagi.
4. The Finance Officer, Gulbarga University, Kalaburagi
5. The Deputy Registrar/ Asst. Registrar of Examination Section, Gulbarga University, Kalaburagi
6. PS to Vice-Chancellor/PA to Registrar, Gulbarga University, Kalaburagi

6



GULBARGA UNIVERSITY

**DEPARTMENT OF POST-GRADUATE STUDIES AND
RESEARCH IN APPLIED ELECTRONICS**

JNANA GANGA, KALABURAGI – 585106, KARNATAKA, INDIA

Dr R L RAIBAGKAR

Phone: 9739302083

PROFESSOR and CHAIRMAN

Email: raibagkar@gmail.com

Ref. No.: GUG/DAE/2022-23

Date: 23.09.2022

ATTENDANCE CERTIFICATE

This is to certify that Dr. M Veereshappa, Associate Professor and HOD of Electronics, L.V.D. College, Raichur, has participated in the UG BOS meeting convened on 23rd September 2022 at Department of Applied Electronics, Gulbarga University, Kalaburagi and involved in the design of Electronics curriculum for B. Sc. I Semester to B. Sc. IV Semester under NEP.

R L Raibagkar

Professor and Chairman
Department of Applied Electronics,
Gulbarga University, Kalaburagi

4:27 4G

< 23 Dr. Raibagakar last seen today at 4:13 PM

Gulbarga University, Kalaburagi is inviting you to a scheduled Zoom meeting.

Topic: Online U.G. BOS meeting is scheduled on March 17, 2023
Time: Mar 17, 2023 03:00 PM India

Join Zoom Meeting
[https://us06web.zoom.us/j/85262436638?](https://us06web.zoom.us/j/85262436638?pwd=QVVSYS1JFZWplQXUye-WVYS1JOUlhYdz09)
[pwd=QVVSYS1JFZWplQXUye-WVYS1JOUlhYdz09](https://us06web.zoom.us/j/85262436638?pwd=QVVSYS1JFZWplQXUye-WVYS1JOUlhYdz09)

Meeting ID: 852 6243 6638
Passcode: 3794 3:29 PM

Ok sir 5:47 PM ✓

After the meeting please send the meeting invitation and attendance 5:53 PM ✓

4:29 4G

< 23 Dr. Raibagakar last seen today at 4:13 PM

Sir/Madam, please find attached herewith a proceedings copy for your signature. Please sign it and send me the scanned copy of the same at the earliest as desired by the University for further needful action. Thank you very much. With regards,
Sincerely: Prof R L RAIBAGKAR, Chairman UGBoS in Electronics, Gulbarga University Kalaburagi. 12:51 PM

Sir please sign on the top. 1:00 PM

UGBOS- DrMV.pdf

4:31 4G

< 23 Dr. Raibagakar last seen today at 4:13 PM

5:56 AM ✓

7 Feb 2022

Good afternoon Sir. It's my pleasure to have your presence for UGBoS meeting to be conducted on 15th February 2022. Please make it convenient and spare your valuable time and guidance. Thanking you in anticipation and awaiting for your positive response. With best regards 🙏
R L RAIBAGKAR Professor and Chairman Department of Applied Electronics Gulbarga University Kalaburagi 🙏 1:57 PM

Ok sir I will attend, thank you 2:01 PM ✓

4:28 4G

< 23 Dr. Raibagakar last seen today at 4:13 PM

[ebyi1677862290733](https://wa.me/911677862290733) 10:22 PM

14 Mar 2023

Good afternoon. An ONLINE UGBoS meeting is convened on March 17, 2023 at 3pm. Please confirm your participation. Link will be shared to you. Thank you very much. Prof R L RAIBAGKAR Gulbarga University, Kalaburagi. 3:49 PM

Please suggest the agenda for this meeting. 🙏 3:49 PM

Good afternoon Sir
Ok sir I will attend, There is no special agenda from my side
Thank you 🙏🙏 4:00 PM ✓

Ok 4:04 PM

7

Proceedings of the UG BoS meeting held on 23rd September 2022 through online mode.

The following members were present:

- | | |
|-----------------------|-----------------|
| 1) Dr R L Raibagkar | Chairman |
| 2) Dr S S Suryavanshi | External Member |
| 3) Dr Manjesh | External Member |
| 4) Dr M Veereshappa | Internal Member |
| 5) Shri R H Patil | Internal Member |
| 6) Smt. Bharathi S | Internal Member |

8

M Veereshappa

UGBOS meeting resolutions:

- 1) Chairman welcomed the members of the UGBoS and appraised about the contents in the University letter no. GUK/ACA/BOS-NEP/2022-23/01 dated 19/09/2022 regarding the placement and kind approval to the syllabus of B. Sc. 3rd and 4th semester Electronics subject. The said syllabus was already circulated to all the members for their reference and their views/opinions on the syllabus.
- 2) Members have communicated their opinion/views on the B. Sc. 3rd and 4th Semester electronics syllabus under NEP-2020 and sent their approval through email.
- 3) The above said matter was submitted through a letter to the University through the Dean, Faculty of Science and Technology, GUK after being placed in the Faculty meeting convened on 26/09/2022.
- 4) The meeting ended with vote of thanks by the Chairman.

External members: Sd/- Dr S S Suryavanshi Sd/- Dr Manjesh
Internal Members: Sd/- Dr M Veereshappa Sd/- Shri R H Patil Sd/- Smt. Bharathi S

R L Raibagkar
UGBoS Chairman
Dr R L Raibagkar
Dr. R. L. RAIBAGKAR
Chairman, BOS - BOE
Dept. of Applied Electronics
Gulbarga University, Kalaburagi.



me 13 Feb 2021

to Prabhakar, riraibagkar, s....



9

Respected Sir,
Kindly find the attachment file and add tutorial
experiments for Antenna Theory and Wireless
Network

Thanking You,

With Regards

...

Addition to
DSE 1b and 4...

W Docs

Email Correspondence
from the Chairman,
BOS, PG Dept. of
Electronics,
Gulbarga University
to Dr. M. Veereshappa
Associate Professor
in Electronics



10

GULBARGA UNIVERISTY, KALABURAGI
 Distribution of Courses /Papers in Under Graduate Program I to VI Semester as per Choice Based Credit System (CBCS) proposed for B.Sc Courses

Semester	Course Code	Course Type	Course Title	Credits	Teaching per week L:T:P	Total Credits
Semester						
I	11	AECC-1a				6
	12	AECC-1b				
	13	AECC-1c				
	14	DSC 1A	Network Analysis and Analog Electronics	6	4:0:2	
	15	DSC 2A				
	16	DSC 3A				
II	21	AECC-2a				6
	22	AECC-2b				
	23	AECC-2c				
	24	DSC 1B	Linear and Digital Integrated Circuits	6	4:0:2	
	25	DSC 2B				
	26	DSC 3B				
III	31	AECC-3a				6
	32	AECC-3b				
	33	DSC 1C	Communication Electronics	6	4:0:2	
	34	DSC 2C				
	35	DSC 3C				
IV	41	AECC-4a				6
	42	AECC-4b				
	43	DSC 1D	Microprocessor and Microcontroller	6	4:0:2	
	44	DSC 2D				
	45	DSC 3D				
V	51	SEC-1	Electrical Circuits and Network Skills	2	1:0:1	10
	52	SEC-2	Analog, Digital and Electronic Communication Skills	2	1:0:1	
	53	DSE 1a	Electronic Instrumentation	6	4:0:2	
	54	DSE 1b ✓	Verilog & FPGA based system design ✓	6 ✓	4:0:2 ✓	
	55	DSE 2				
	56	DSE 3				
VI	61	SEC-3	Consumer Electronics and Embedded Systems Skills	2	1:0:1	10
	62	SEC-4	Electronics Project	2	0:0:2	
	63	DSE 4a	Photonic Devices and Power Electronics	6	4:0:2	
	64	DSE 4b ✓	Antenna Theory and wireless networks ✓	6 ✓	5:1:0 ✓	
	65	DSE 5				
		DSE 6				
Total credits for the course						44

Note: Course = paper: AECC: Ability Enhancement Course, MIL: Media and Information Literacy.
 DSC: Discipline Specific Core Course,
 SEC: Skill Enhancement Course,
 DSE: Discipline Specific Elective,
 L= Lecture, T=Tutorial, P=Practical, Additional 02 credits shall be given for the successfully completion of two years of NSS (144+2=146), AECC-1c and AECC-2 papers shall be approved by the BOS of environmental science and political science, Titorial/batch = 20 students, practical/batch 10 students, AECC-a and AECC-b papers cover communicative skill.

FOR 5TH SEM

ELECTRONICS-DSE 1b: VERILOG & FPGA BASED SYSTEM DESIGN

(Credits: Theory-04, Practicals-02) Theory:

60 Lectures

Digital logic design flow: Review of combinational circuits. Combinational building blocks: multiplexors, demultiplexers, decoders, encoders and adder circuits. Review of sequential circuit elements: flip-flop, latch and register. (15 lectures)

Finite state machines: Mealy and Moore. Other sequential circuits: shift registers and counters. FSMD (Finite State Machine with Data path) Design and analysis: Microprogrammed control. Memory basics and timing. Programmable Logic devices. (15 lectures)

Evolution of Programmable logic devices: PAL, PLA and GAL. CPLD and FPGA architectures. Placement and routing. Logic cell structure. Programmable interconnects, Logic blocks and I/O Ports. Clock distribution in FPGA. Timing issues in FPGA design. Boundary scan. (15 lectures)

Verilog HDL: Introduction to HDL. Verilog primitive operators and structural Verilog Behavioral Verilog. Design verification. Modeling of combinational and sequential circuits (including FSM and FSMD) with Verilog Design examples in Verilog. (15 lectures)

Reference Books:

1. LizyKurien and Charles Roth. *Principles of Digital Systems Design and VHDL*. Cengage Publishing. ISBN-13: 978-8131505748
 2. Palnitkar, Samir, *Verilog HDL*. Pearson Education; Second edition (2003).
 3. Ming-Bo Lin. *Digital System Designs and Practices: Using Verilog HDL and FPGAs*. Wiley India Pvt Ltd. ISBN-13: 978-8126536948
 4. Zainalabedin Navabi. *Verilog Digital System Design*. TMH; 2nd edition. ISBN-13: 978-0070252219
 5. Wayne Wolf. *FPGA Based System Design*. Pearson Education.
 6. S. K. Mitra, *Digital Signal processing*, McGraw Hill, 1998
 7. VLSI design, Debaprasad Das, 2nd Edition, 2015, Oxford University Press.
 8. D.J. Laja and S. Sapatnekar, *Designing Digital Computer Systems with Verilog*, Cambridge University Press, 2015.
-

PRACTICALS-DSE LAB: VERILOG AND FPGA LAB

60 Lectures

AT LEAST 08 EXPERIMENTS FROM FOLLOWING.

1. Write code to realize basic and derived logic gates.
2. Half adder, Full Adder using basic and derived gates.
3. Half subtractor and Full Subtractor using basic and derived gates.
4. Design and simulation of a 4 bit Adder.
5. Multiplexer (4x1) and Demultiplexer using logic gates.
6. Decoder and Encoder using logic gates.
7. Clocked D, JK and T Flip flops (with Reset inputs)

- 8. 3-bit Ripple counter
- 9. To design and study switching circuits (LED blink shift)
- 10. To design traffic light controller.
- 11. To interface a keyboard
- 12. To interface a LCD using FPGA
- 13. To interface multiplexed seven segment display.
- 14. To interface a stepper motor and DC motor.
- 15. To interface ADC 0804.

Reference Books

- W. Wolf, FPGA- based System Design, Pearson, 2004
 - U. Meyer Baese, Digital Signal Processing with FPGAs, Springer, 2004
 - S. Palnitkar, Verilog HDL- A Guide to Digital Design & Synthesis, Pearson, 2003
 - Verilog HDL primer- J. Bhasker. BSP, 2003 II edition
-

FOR 6TH SEM
ELECTRONICS-DSE 4b: ANTENNA THEORY AND WIRELESS
NETWORKS

13

(Credits: Theory-05, Tutorial-01)

Theory: 75 Lectures

ANTENNA THEORY:

Introduction: Antenna as an element of wireless communication system, Antenna radiation mechanism, Types of Antennas, Fundamentals of EMFT: Maxwell's equations and their applications to antennas. Antenna Parameters: Radiation pattern (polarization patterns, Field and Phase patterns), Field regions around antenna, Radiation intensity, Beam width, Gain, Directivity, Polarization, Bandwidth, Efficiency and Antenna temperature. **(15 Lectures)**

Antenna as a Transmitter/Receiver: Effective Height and Aperture, Power delivered to antenna, Input impedance. Radiation from an infinitesimal small current element, Radiation from an elementary dipole (Hertzian dipole), Reactive, Induction and Radiation fields, Power density and radiation resistance for small current element and half wave dipole antenna. **(15 Lectures)**

Radiating wire Structures (Qualitative idea only): Monopole, Dipole, Folded dipole, Loop antenna and Biconical broadband Antenna. Basics of Patch Antenna and its design. Examples of Patch antenna like bowtie, sectoral, fractal, etc. Propagation of Radio Waves: Different modes of propagation: Ground waves, Space waves, Space Wave propagation over flat and curved earth, Optical and Radio Horizons, Surface Waves and Troposphere waves, Ionosphere, Wave propagation in the Ionosphere. Critical Frequency, Maximum usable frequency (MUF), Skips distance. Virtual height. Radio noise of terrestrial and extraterrestrial origin. Elementary idea of propagation of waves used in Terrestrial mobile communications. **(15 Lectures)**

WIRELESS NETWORKS:

Introduction: History of wireless communication, Wireless Generation and Standards, Cellular and Wireless Systems, Current Wireless Systems, Cellular Telephone Systems, Wide Area Wireless Data Services, Broadband Wireless Access, Satellite Networks, Examples of Wireless Communication Systems. Idea about Global Mobile communication system. **(15 Lectures)**

Modern Wireless Communication Systems: Second Generation (2G) Cellular Networks, Third Generation (3G) Wireless Networks, Wireless Local Loop (WLL), Wireless Local Area Networks (WLANs), Bluetooth and Personal Area Networks (PANs). Idea about Wi-Fi, 4G and LTE, and 5G. **(15 Lectures)**

Reference Books:

- Ballanis, Antenna Theory, John Wiley & Sons, (2003) 2nd Ed.
- Jordan and Balmain, E. C., Electro Magnetic Waves and Radiating Systems, PHI, 1968 Reprint (2003) 3rd Ed.

- Andrea Goldsmith, Wirelerrss communications, (2015) Cambridge University Press
- D. Tse and P. Viswanathan, Fundamentals of Wireless Communication, (2014) Cambridge University Press.
- Wireless communication and Networks, Upena Dala, 2015, Oxford University Press.
- Antenna and Wave Propagation, Yadava, PHI Learning.
- Haykin S. & Moher M., Modern Wireless Communication, Pearson, (2005) 3rd Ed.
- Lee, William C.Y., Mobile Communciation Design and Fundamentals, (1999) 4th Ed

Tutorial 4b: Antenna Theory and Wireless Networks

(Credits: Tutorial-01) Any Six Demo Experiments

- 1.
- 2.
- 3.
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- 12.



GULBARGA UNIVERSITY

DEPARTMENT OF MICROBIOLOGY

Jnanaganga, Kalaburagi - 585106, Karnataka India
Phone: 08472 263297; Fax: 08472-263206, www.gulbargauniversity.kar.nic.in
Email: dept_microbiology@gug.ac.in

No: GUK/MICRO/2019-20/

Date: 12.10.2019

15

Proceedings of the meeting of UG Board of Studies in Microbiology Held on 12th October, 2019 at 11:00 am

(Conducted as per the Registrar's Letter No. GUG/ACA/BOS/2019-20/469 Date: 02.08.2019)

The following members were present:

1. Dr. K.Lingappa - Chairman
2. Dr. (Smt.) Vandana Rathod - Internal Member
3. Dr. Ramakrishna, GDC, Kalaburagi - Internal Member
4. Dr. (Smt.) Vidhya Patil LVD, College Raichur - Internal Member
5. Dr. T. Vishwanath, Maharani College Bangalore - External Member

Discussions and Resolutions

1. The syllabus as per CBCS was discussed with little changes is approved.
2. The performance of the student for the academic year 2018-19 was reviewed and was found satisfactory.
3. The panel of examiners for the year 2019-20 was finalized and approved.

Department of Microbiology
L.V.D. COLLEGE,
RAICHUR-584 103.

PRINCIPAL
L.V.D. College, RAICHUR-03.



GULBARGA UNIVERSITY
DEPARTMENT OF MICROBIOLOGY

Jnanaganga, Kalaburagi - 585106, Karnataka India

Phone: 08472- 263297: www.gulbargauniversity.kar.nic.in: Email: dept_microbiology@gug.ac.in

No: GUK/MICRO/2020-21/

Date: 23.11.2020

LB

Proceedings of the meeting of UG Board of Studies in Microbiology
Held on 23rd November 2020 at 02.30pm


(Conducted as per the Registrar's Letter No. GUG/ACA/BOS/2020-21/374 Date: 09.09.2020)

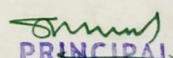
The following members were present:

1. Dr. Dayanand Agsar - Chairman
2. Dr. Ramakrishna, GDC, Kalaburagi - Internal Member
3. Dr. (Smt.) Kamala Navaratna - External Member
4. Dr. (Smt.) Vidhya Patil LVD, College Raichur - External Member
5. Dr. A Dhullappa, Maharani Science College Bangalore - External Member
6. Dr. Shankar S, Govt. Science College (Nrupatunga University)Bangalore - External Member

Discussions and Resolutions

1. The performance of the student for the academic year 2020-21 was reviewed and was found satisfactory.
2. The panel of examiners for the year 2020-21 was finalized and approved.
3. The syllabus as per CBCS was discussed with little changes is approved.
4. No matter was referred from the office
5. Under any matter.


Department of Microbiology
L.V.D. COLLEGE,
RAICHUR-584 103.


PRINCIPAL
L.V.D. College, RAICHUR-03.



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DEPARTMENT OF MICROBIOLOGY

Jnanaganga, Kalaburagi - 585106, Karnataka India

Phone: 08472- 263297: www.gulbargauniversity.kar.nic.in: Email: dept_microbiology@gug.ac.in

No: GUK/MICRO/2020-21/

Date: 23.11.2020

17

PROCEEDINGS OF THE MEETING (ON-LINE) OF BOARD OF STUDIES IN MICROBIOLOGY (UG) HELD ON 23RD NOVEMBER 2020 AT 02.30 PM

(Conducted as per the Registrar's Letter No. GUG/ACA/BOS/2020-21/374 Date: 09.09.2020)

The following members were present:

- | | |
|--|-------------------|
| 1. Dr. Dayanand Agsar | - Chairman |
| 2. Dr. Ramakrishna, GDC, Kalaburagi | - Internal Member |
| 3. Dr. (Smt.) Kamala Navaratna | - External Member |
| 4. Dr. (Smt.) Vidhya Patil LVD, College Raichur | - External Member |
| 5. Dr. A Dhullappa, Maharani Science College Bangalore | - External Member |
| 6. Dr. Shankar S, Govt. Science College
(Nrupatunga University) Bangalore | - External Member |

Discussions and Resolutions

1. The performance of the students for the academic year 2019-20 was reviewed and was found satisfactory.
2. The question papers of the preceding B.Sc. examinations were reviewed and found satisfactory. However, it was further discussed and resolution was made to give serial continuous numbers from questions 1 to 24, covering all sections (Section -A, B and C). Section A should include 1 to 12 numbers (instead of a to l, as was earlier), section B should include 13 to 18 and Section C should include 19 to 24.
3. The Panel of Examiners for ensuing B.Sc. course was prepared and approved.

Department of Microbiology
L.V.D. COLLEGE,
RAICHUR-584 103.

PRINCIPAL
L.V.D. College, RAICHUR-03.

CHAIRMAN
Department of Microbiology
Gulbarga University, Kalaburagi-585106

GULBARGA UNIVERSITY

DEPARTMENT OF MICROBIOLOGY

Jnanaganga, Kalaburagi - 585106, Karnataka India

Phone: 08472- 263297: www.gulbargauniversity.kar.nic.in: Email: dept_microbiology@gug.ac.in

GUG/MICRO/2021-22/

Date: 10.03.2022

18

PROCEEDINGS OF THE MEETING (On-Line/Off-Line) OF UG BOARD OF STUDIES IN

MICROBIOLOGY HELD ON 10th MARCH 2022 AT 11:30AM.


(Conducted as per the Registrar's Letter No. GUG/ACA/BOS/2021-22/1495 Date: 05.02.2022)

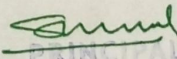
The following members were present:

1. Dr. (Smt.) Vandana Rathod - Chairman (Off-Line attended)
2. Dr. K. Lingappa - Internal Member (Online attended)
3. Dr. D. Ramakrishna, GDC, Kalaburagi - External Member (Off-Line attended)
4. Dr. (Smt.) Kamala Navaratna - External Member (Online attended) *Qm*
5. Dr. A Dhullappa, Maharani Science College Bangalore - External Member (Online attended)
6. Dr. Shankar S, Govt. Science College (Nrupatunga University)Bangalore - External Member (Online attended)

Discussions and Resolutions

1. The performance of the students for the academic year 2021-22 was reviewed and was found satisfactory.
2. The question paper of the preceding B.Sc examinations (CBCS) were reviewed and found satisfactory.
Further regarding NEP -2020 (B.Sc Honors) syllabus question paper pattern is discussed and finalized.
3. The Panel of Examiners for ensuing B.Sc. course and NEP-2020 was prepared and approved.
4. The syllabus under NEP-2020 for 1st & IInd semester submitted by the Govt. to be followed by the colleges is accepted and approved.
5. No matter from the university office was referred to the BOS.
6. Under any other matter with permission of the chair,
 - a). Dr. Kamala Navaratna from L.V.D college, UG BOS member has presented that L.V.D college started Medical Lab Technology courses (1 year certificate course), eligibility P.U students, sponsored by UGC started in year 2010 -11, has presently 70 student and since its inception the students have good placements.


Department of Microbiology
L.V.D. COLLEGE,
RAICHUR-584 103.


PRINCIPAL
L.V.D. College, RAICHUR-03.

19

Approval of syllabus for project under NSQF of UGC

A request submitted by the Principal, LVD College, Raichur regarding the approval of the syllabus pertaining to National Skills Qualification Frame work (NSQF), programme sanctioned to the college by UGC to encourage the job oriented skill development training course for 10+2 passed and UG Science students was discussed and approved. The nomenclature of the course is DIPLOMA IN LIFE SCIENCES (BIOPHARMACEUTICAL MICROBIOLOGY AND BIOPROCESSING MICROBIAL TECHNIQUES) and the duration of course is one year including two semesters (I & II semesters)


5. No matter from the office of the University was referred to the BOS.
6. Under any other matter with permission of the chair.

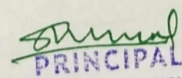
Syllabus pertaining to the Microbiology papers / subjects of B.Sc course (CBCS) approved during the academic year 19-20 was presented by Dr. Kamala Navaratna and Dr. Vidya Patil with certain required changes / modifications. The proposed changes / modifications were discussed and approved. Further, it was resolved to forward to the office to place it before the Academic Council for ratification.

The meeting was completed with vote of thanks proposed by the Chairman to all the members for their active participation.

Approved on-line through email by all the members of the BOS

1. Dr. Dayanand Agsar (Gulbarga University, Kalaburagi)
2. Dr. Ramkrishna GDC, Kalaburagi)
3. Dr. (Smt). Kamala Navaratna LVD, College Raichur
4. Dr. (Smt). Vidhya Patil LVD, College Raichur
5. Dr. A. Dhullappa, Maharani Science College Bangalore
6. Dr. Shankar S, Govt. Science College (Nrupatunga University) Bangalore


Department of Microbiology
L.V.D. COLLEGE,
RAICHUR-584 103.


PRINCIPAL
L.V.D. College, RAICHUR-03.


CHAIRMAN
CHAIRMAN
Department of Microbiology
Gulbarga University, Kalaburagi-585106

BOS member are surprised to hear about this course since 10 years which was not brought to the notice of BOS members in the meeting.

However, all the BOS members appreciated for the running course and the same is recorded and informed to the office.

b). Dr. (Smt.) Vidhya Patil earlier was BOS member for UG from LVD college. But now she joined Govt. Degree Autonomous College Kalaburagi, as Guest faculty in the department of Microbiology. Therefore, she is not considered as BOS member for the academic year 2021-22.

The meeting was completed with vote of thanks proposed by the Chairman to all the members for their active participations.

Approved on-line / Off-line through email by all the members of the BOS

1. Dr. (Smt.) Vandana Rathod

V. Rathod
10.3.22

2. Dr. K. Lingappa

[Signature]

3. Dr. D. Ramakrishna, GDC, Kalaburagi

[Signature]
10/3/22

4. Dr. (Smt.) Kamala Navaratna

[Signature]
10/3/2022

5. Dr. A Dhullappa, Maharani Science College Bangalore

6. Dr. Shankar S, Govt. Science College, (Nrupatunga University) Bangalore

[Signature]

Department of Microbiology
L.V.D. COLLEGE,
RAICHUR-584 103.

V. Rathod
CHAIRMAN
Department of Microbiology
Kalaburagi University, Kalaburagi

[Signature]
PRINCIPAL
L.V.D. College, RAICHUR-03.



GULBARGA UNIVERSITY

DEPARTMENT OF MICROBIOLOGY

Jnanaganga, Kalaburagi - 585106, Karnataka India
Phone: 08472-263297; www.gulbargauniversity.kar.nic.in; Email: dept_microbiology@gug.ac.in

No: GUK/MICRO/2022-23/167

Date: 27.03.2023

21

PROCEEDINGS OF THE MEETING (On-Line) OF Under Graduate (UG) BOARD OF STUDIES IN MICROBIOLOGY HELD ON 27th MARCH 2023 AT 11:00AM.

(Conducted as per the Registrar's Letter No.GUK/ACA/BOS/2022-23/198 Date: 28.02.2023)
The following members were present:

1. Prof. K. Lingappa - Chairman
2. Dr. D. Ramakrishna, GDC, Kalaburagi - External Member (online attended)
3. Dr. (Smt.) Kamala Navaratna - External Member (online attended)
4. Dr. A Dhullappa, Maharani Science College Bangalore - External Member (Online attended)
5. Dr. Shankar S, Govt. Science College (Nrupatunga University)Bangalore - External Member (Online attended)

Discussions and Resolutions the Meeting was held through online mode:

1. The performance of the students for the academic year 2022-23 was reviewed and was found satisfactory.
2. The question paper of the preceding B.Sc examinations (CBCS) were reviewed and found satisfactory.
3. The Panel of Examiners for ensuing B.Sc. course and NEP-2023 was prepared and approved.
4. The syllabus under NEP-2020 for III semester submitted by the Govt. to be followed by the colleges is accepted and approved.
5. No matter from the university office was referred to the BOS.

The meeting was completed with vote of thanks proposed by the Chairman to all the members for their active participations.

Approved on-line email by all the members of the BOS

1. Prof. K. Lingappa
2. Dr. D. Ramakrishna, GDC, Kalaburagi
3. Dr. (Smt.) Kamala Navaratna
4. Dr. A Dhullappa, Maharani Science College Bangalore
5. Dr. Shankar S, Govt. Science College, (Nrupatunga University)Bangalore

Department of Microbiology
L.V.D. COLLEGE,
RAICHUR-584 103.

L.V.D. College, RAICHUR-03.

CHAIRMAN
CHAIRMAN
Department of Microbiology
Gulbarga University, Kalaburagi-585106


GULBARGA UNIVERSITY
DEPARTMENT OF BOTANY

REF: GUG/BOT/BOS/UG/NEP/2022-23/

DT: 09/03/2023

**PROCEEDINGS OF THE MEETING OF
BOARD OF STUDIES IN UNDER-GRADUATE BOTANY, GUK**

The Meeting of the Board of Studies in Under-Graduate (BOS-UG) Botany (vide. Ref: Ref No . GUK/ACD/BOS/2022-23/198) was held on 09 March 2023 at 11.0 am in the Department of Botany, GU Kalaburagi.

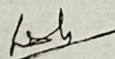
Members Present :

1. Dr K Lingappa , GU Kalaburagi, (Coordinator)
2. Dr G M Vidyasagar, Dept of Botany, GUK, (Member)
3. Dr Lata Karekal, SB College, Kalaburagi, (Member)
4. Dr Prashant P, LVD College, Raichur, (Member) ✓

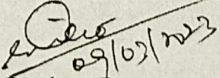
PROCEEDINGS

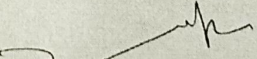
1. Review of previous Question papers
2. Review of B.Sc Results were made and found satisfactory
3. Approval of practical Examination scheme for III & IV Semester
4. The panel of examiner for B.Sc course in Botany was prepared for the academic year 2023-24
5. Constitution of BOS members for the Academic year 2023-24 in Botany (UG)

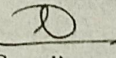
- | | |
|--|--------------|
| 1. Coordinator, Dept of Botany, GUK | (Chairman) |
| 2. Dr Shaila Hiremath , SB College Science, Kalaburagi | (Member) |
| 3. Dr Sangram Reddy, SBC & SV Degree College, Humanbad | (Member) |
| 4. Dr Suresh H.R, SSK Basaveshwar College, Basavakalyan | (Member) |
| 5. Dr Sidahalinga Murthy, ADB First Grade College, Harapanahalli | (External) - |
| 6. Sri Mahemood.T, LVD college, Raichur | (External) |


Dr Lata Karekal
Member

9/3/23


Dr Prashant P
Member


Dr G M Vidyasagar
Member


Coordinator
9/3/2023

Model Question paper for theory examination for Core and DSE papers:

GULBARGA UNIVERSITY, KALABURAGI
B.Sc --- Semester Degree Theory Examination in Botany, month, year.
Paper:

Time: 3 h

Max.Marks:80

Instruction to Candidates: 1. Answer all the questions.
2. Draw diagrams wherever necessary

I. Answer any TEN of the followings in two or three sentences (2x10=20)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

II. Answer any FOUR of the followings in brief (4x5=20)

- 13.
- 14.
- 15.
- 16.
- 17.
- 18.

III. Answer any FOUR of the followings (4x10=40)

- 19
- 20
- 21
- 22
- 23
- 24

[Handwritten signature]

Model Question paper for internal theory examination for Core and DSE papers:

GULBARGA UNIVERSITY, KALABURAGI
B.Sc ----- Semester Degree Theory Internal Examination in Botany, month, year.
Paper:

Time: 1 h

Max.Marks:20

I. Answer the followings in two or three sentences

(1x5=5)

- 1.
- 2.
- 3.
- 4.
- 5.

II. Answer any ONE of the followings in brief

(1x5=5)

- 6.
- 7.

III. Answer any ONE of the followings

(1x10=10)

- 8.
- 9.

Members of Board of Studies

1. Dr. Ashok Kumar Khajapur Member

2. Dr. Latadevi Karikal Member

3. Dr. Prashant Kumar Member

4. Ms. Nagashree B

Member (External) approved through e-mail

5. Dr. S N Agadi

Member (External) approved through e-mail

6. Dr. G M Vidyasagar

Chairman

Professor & Chairman
Department of P.G. Studies
& Research in Botany
Gulbarga University Kalaburagi-585106
Karnataka

25



GULBARGA UNIVERSITY
"Jnana Ganga", GULBARGA-585106
Karnataka, India

Phone: 08472-263285
Fax : 08472-263206

P.G.DEPT. OF STUDIES AND RESEARCH IN EDUCATION, G.U.KALABURAGI

NO.GUK/EDN/2021-22/

Date: 06-09-2021

To
Sri. Venkatesh
L.V.D Degree College,
Raichur.

Sub: Request to attend U.G. (B A) Education Board of Studies meeting –Reg

Sir/Madam,

With reference to the subject cited above, it is to inform you that the Board of Studies U.G. (B A) Education meeting is fixed on 07-09-2021 at 11-00am in the Department of Education, Gulbarga University, Kalaburagi. Kindly make it convenient to attend the meeting without fail.

Agenda of the meeting:

- 1) Discussion of BA Education syllabus NEP2020
- 2) Any other matter with the permission of the Chair

Thanking you,

Yours faithfully

CHAIRMAN

Dept. of Education
Gulbarga University Kalaburagi-585106



GULBARGA UNIVERSITY
"Jnana Ganga", GULBARGA-585106
Karnataka, India

Phone: 08472-263285
Fax : 08472-263206

P.G.DEPT. OF STUDIES & RESEARCH IN EDUCATION , G.U.KALABURAGI

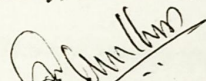
NO/GUK/EDN/2021-22/

Date: 07-09-2021

26

ATTENDANCE CERTIFICATE

This is to certify that, **Sri. Venkatesh** Lecturer, L.V.D, Degree College, Raichur, his attended the U.G B.A (Education) BOS meeting on 07-09-2021. in the Dept. of Education, Gulbarga University, Kalaburagi.


Chairman
CHAIRMAN

Dept. of Education

Gulbarga University Kalaburagi-585106



GULBARGA UNIVERSITY
"Jnana Ganga", GULBARGA-585106
Karnataka, India

Phone: 08472-263285
Fax : 08472-263206

P.G.DEPT. OF STUDIES AND RESEARCH IN EDUCATION, G.U.KALABURAGI

NO.GUK/EDN/2021-22/

Date: 21-09-2021

To
Sri. Venkateh
L.V.D Degree College,
Raichur.

27

Sub: Request to attend U.G. (B A) Education Board of Studies meeting –Reg

Sir/Madam,

With reference to the subject cited above, it is to inform you that the Board of Studies U.G. (B A) Education meeting is fixed on 23-09-2021 at 11-00am in the Department of Education, Gulbarga University, Kalaburagi. Kindly make it convenient to attend the meeting without fail.

Agenda of the meeting:

- 1) Discussion of BA Education syllabus NEP2020
- 2) Any other matter with the permission of the Chair

Thanking you,

Yours faithfully

CHAIRMAN

Dept. of Education

Gulbarga University Kalaburagi-585106



GULBARGA UNIVERSITY
"Jnana Ganga", GULBARGA-585106
Karnataka, India
P.G.DEPT. OF STUDIES AND RESEARCH IN EDUCATION, G.U.KALABURAGI

Phone: 08472-263285
Fax : 08472-263206

Date: 06-09-2021

NO.GUK/EDN/2021-22/

28

To
Sri. Venkatesh
L.V.D Degree College,
Raichur.

Sub: Request to attend U.G. (B A) Education Board of Studies meeting –Reg

Sir/Madam,

With reference to the subject cited above, it is to inform you that the Board of Studies U.G. (B A) Education meeting is fixed on 07-09-2021 at 11-00am in the Department of Education, Gulbarga University, Kalaburagi. Kindly make it convenient to attend the meeting without fail.

Agenda of the meeting:

- 1) Discussion of BA Education syllabus NEP2020
- 2) Any other matter with the permission of the Chair

Thanking you,

Yours faithfully

CHAIRMAN
Dept. of Education
Gulbarga University Kalaburagi-585106



GULBARGA UNIVERSITY
"Jnana Ganga", GULBARGA-585106
Karnataka, India

Phone: 08472-263285

Fax : 08472-263206

P.G.DEPT. OF STUDIES & RESEARCH IN EDUCATION , G.U.KALABURAGI

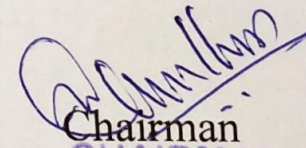
NO/GUK/EDN/2021-22/

Date: 07-09-2021

29

ATTENDANCE CERTIFICATE

This is to certify that, **Sri. Venkatesh** Lecturer, L.V.D, Degree College, Raichur, his attended the U.G B.A (Education) BOS meeting on 07-09-2021. in the Dept. of Education, Gulbarga University, Kalaburagi.



Chairman

CHAIRMAN

Dept. of Education

Gulbarga University Kalaburagi-585106



GULBARGA UNIVERSITY
"Jnana Ganga", GULBARGA-585106
Karnataka, India

Phone: 08472-263285
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P.G.DEPT. OF STUDIES AND RESEARCH IN EDUCATION, G.U.KALABURAGI

NO.GUK/EDN/2021-22/

Date: 21-09-2021

To
Sri. Venkateh
L.V.D Degree College,
Raichur.

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Sub: Request to attend U.G. (B A) Education Board of Studies meeting –Reg

Sir/Madam,


With reference to the subject cited above, it is to inform you that the Board of Studies U.G. (B A) Education meeting is fixed on 23-09-2021 at 11-00am in the Department of Education, Gulbarga University, Kalaburagi. Kindly make it convenient to attend the meeting without fail.

Agenda of the meeting:

- 1) Discussion of BA Education syllabus NEP2020
- 2) Any other matter with the permission of the Chair

Thanking you,

Yours faithfully


CHAIRMAN

Dept. of Education
Gulbarga University Kalaburagi-585106



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ATTENDANCE CERTIFICATE

This is to certify that, Sri. Venkatesh Assistance Proffesor, L.V.D, Degree College, Raichur, his attended the U.G B.A (Education) BOS meeting on 23-09-2021. in the Dept. of Education, Gulbarga University, Kalaburagi.

Chairman
CHAIRMAN

Dept. of Education

Gulbarga University Kalaburagi-585106