S.V.M.V.V. Society's

S. V. M. ARTS, SCIENCE AND COMMERCE COLLEGE
ILKAL - 587125

Dist: Bagalkote Karnataka

ACCREDITED WITH 'A' GRADE BY NAAC Under CGPA 3.04

(Affiliated to Bagalkot University, Jamkhandi, Centre Code: 6218)

ANNUAL QUALITY ASSURANCE REPORT (AQAR)

CRITERION-II

2.2.1. The institution accesses the learning levels of the students and organizes Special Programmers for advance and slow learners.

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BENGALURU
2023-24

INDEX

2.2.1

1) Remedial classes for slow learners

2) Seminar

3) Projects

4) Coaching classes for Competitive Examination

5) Question bank / Study material

6) Library facilities for advance learners

7) Cash prizes for the toppers

SVMVV Society's

SVM Arts, Science and Commerce College, Ilkal - 587125
Department of : Political Science
Student List of Slow Learners – 2023-24.

No	Register No	Name	M/F	Cast / Category
01	U15IA23 A0050	Suraj Kalagi	M	—
02	U15IA23 A0044	Basavant Nilajari	M	—
03	U15IA22 A0026	Darshan Karabhari	M	—
04	U15IA22 A004	Abhishek Karabhari	M	—
05	A15IA21 A002	Muskan Kandagal	F	—
06	A15IA21 A0021	Abhishek Pawar	M	—
07	A15IA21 A003	Bharath Gurikas	M	—
08	A15IA21 A0024	Vittal Talawar	M	—
			HOD Dept of Political Science SVM Arts, Science & Commerce College ILKAL- 587 125		

SVM Arts, Science and Commerce College, Ilkal-587125

Department of : Political Science

Remedial Classes for Slow Learners

Class: I, II & III year   Year: 2023-24

Sl.No	Date	Name of the Staff	Topic covered	Signature
01	12-7-24	Dr. Ramesh Malagi	"Basic Concepts of	
02	12-7-24	Dr. Ramesh Malagi	Political Theories"	
03	18-7-24	Dr. Mahadevagouda	"concepts of Politi	
04	18-7-24	Dr. Mahadevagouda	-cal science".	
05	03-8-24	Dr. Ramesh Malagi	"Indian constituti	
06	03-8-24	Dr. Ramesh Malagi	-onal Bodies."	
07	06-8-24	Dr Mahadevagouda	"Modern Political	
08	06-8-24	Dr. Mahadevagouda	Analysis".	
09	06-8-24	Dr Ramesh Malagi	"Karnataka Govt	
10	06-7-24	Dr. Ramesh Malagi	& Politics".	
11	09-7-24	Dr. Ramesh Malagi	"Basic structures	
12	09-7-24	Dr. Ramesh Malagi	of Judicial System"	
13	13-7-24	Dr. Mahadevagouda	"Public Policy ma	
14	13-7-24	Dr. Mahadevagouda	king in India".	
15	25-07-24	Dr. Mahadevagouda	"International Relations	
16	25-07-24	Dr. Mahadevagouda	and War"	
17	13-08-24	Dr. Mahadevagouda	"collective securi	
18	13-08-24	Dr. Mahadevagouda	-ty"	
			HOD	
			Dept. of Political Science	
			SVM Arts. Science & Commerce College	
			ILKAL- 587 125	

Head of the Department

SVM Arts, Science and Commerce College, Ilkal-587125

Department of: Political Science

Student Attendance for Slow Learners – 2023-24

No	Reg.No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
01	UISIG23 A0050	Suraj Kalagi	01	02	02	03	04	05	06	07	08	08	09	10	11	12	13	13	14	15		
02	UISIG23 A0014	Basavant Nilagari	00	01	02	02	03	04	05	06	07	07	07	08	09	09	10	11	12	12		
03	UISIG22 A0026	Darshan Karabhari (0)		02	03	04	04	04	05	06	07	08	08	08	09	09	09	10	10	11		
04	UISIG22 A0014	Abhishek Karabhari	01	02	03	04	05	06	07	08	09	09	10	11	11	12	13	14	15	16		
05	UISIG21 A002	Mushtan Kandagal	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	17		
06	UISIG21 A0021	Abhishek Pawar	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18		
07	UISIG21 A003	Bharath Gunikar	01	02	03	04	05	06	06	06	07	08	09	10	11	11	11	12	13	14		
08	UISIG21 A0024	Vittal Talawar	01	02	03	04	05	06	07	08	09	09	10	11	11	12	12	13	13	13		

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SVM Arts, Science and Commerce College, Ilkal - 587125

Department of : Political Science

Student List of Advance Learners – 2023-24

sl.No	Register No	Name	M/F	Cast / Category
01	U15IG23 A0061	Chaitra Hudedamani	F	—
02	U15IG23 A0052	Anushree Kulkarni	F	—
03	U15IG23 A0011	Monnesh Katambli	M	—
04	U15IG23 A0042	Salimsab Jinnad	M	—
05	U15IG22 A0036	Indraja	F	—
06	U15IG22 A0083	Ambika	F	—
07	U15IG22 A0055	Meghraj Badiger	M	—
08	U15IG22 A0017	Sharnabasava Badiger	M	—
09	U15IG21 A0019	Deepa Gondal	F	—
10	U15IG21 A0066	Sangeeta Kasabari	F	—
11	U15IG21 A0018	Savitri Acharya	F	—
12	U15IG21 A0053	Shana Katapuramad	F	—
13	U15IG21 A0012	Bhimesh Hosur	M	—
14	U15IG21 A003	Sharanabasava	M	—
15	U15IG21 A0051	Nandeppa Shirahatti	M	—
16	U15IG21 A0013	Arunkumar Badiger	M	—

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College Code: 6218

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SVM Arts, Science and Commerce College, Ilkal-587125
Department of : Political Science
Enrichment Classes for Advance Learners

Class: Year: 2023-24

Sl.No	Date	Name of the Staff	Topic covered	Signature of the staff
01	25/7/24	Dr. Ramesh Malagi	"Group Disction"	
02	03/8/24	Dr. Ramesh Malagi	Behavirial Theory	
03	06/8/24	Dr. Mahadevagouda	"Pluralist Theory	
04	08/08/24	Dr. Mahadevagouda	"Seminar"	
05	17/8/24	Dr. Ramesh Malagi	seminar "	
06	02/08/24	Dr. Ramesh Malagi	Parliamentary	
07	03/08/24	Dr. Mahadevagouda	Debets	
08	06/8/24	Dr. Mahadevagouda	"	
09	13/08/24	Dr. Ramesh Malagi	Research Projects	
10	13/08/24	Dr. Ramesh Malagi	Research Methods	
11	17/08/24	Dr. Mahadevagouda	"	
12	17/08/24	Dr. Mahadevagouda	"	

BA-I
BA-II
BA-III

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College Code: 6218

Head of the Department

SVM Arts, Science and Commerce College, Ilkal-587125

Department of: Political Science

Student Attendance for Advance Learners – 2.02.3 – 24

Sl.No	Reg.No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	U1S1G923 A00	Chaitra Hudedmani	01	02	03	04	05	06	07	07	08	09	10	11	12	13	14					
	U1S1G923 A00	Anushree Kulkarni	01	02	03	04	05	06	07	08	09	10	11	12								
	U1S1G923	Mounesh Katambli	01	02	02	03	04	05	06	07	08	09	09	10								
	U1S1G923 A00	Salimgala Jinnad	02	02	03	04	05	06	07	08	09	10	11	12								
	U1S1G922 A00	Indrayya	01	02	03	04	05	06	07	09	09	10	11	12								
	U1S1G922 A0082	Ambika	00	00	01	02	03	04	05	06	07	08	09	09								
	U1S1G922 A00	Meghraj Badiger	01	02	03	04	05	06	07	08	09	10	11	12								
)	U1S1G922 A00	Sharanabasava	01	02	03	04	05	06	07	08	09	10	11	11								
	U1S1G921 A0019	Deepa Gouda	01	02	03	04	05	06	07	08	09	10	11	12								
	U1S1G921 A0066	Sangeeta Kharata	00	00	01	02	03	04	05	06	07	08	09	10								
	U1S1G921 A0018	Savitri Achar ya	01	02	03	04	05	06	07	08	09	10	11	12								
	U1S1G921 A0063	Shama Kalapurmath	01	02	03	04	05	06	07	08	09	10	11	11								
	A1S1G921 A0012	Bhimeshi Hasur	01	02	03	04	05	06	07	08	09	10	11	12								
	A1S1G921 A00	Sharanabasava	00	02	03	04	04	05	06	06	07	07	08	09								
	A1S1G921 A00	Nandeppa Shivalatti	01	02	03	04	04	05	06	07	08	09	10	11								
	A1S1G921 A0013	Arunkumar Badiger	01	02	03	04	05	06	07	08	09	10	11	12								

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Teachers Using ICT with LNS, E-learning resources

Year: 2023-24   Department: Political Science

Name of the faculty:

Sl.No	Class	Topic	e-Resources Used	Use of LCD Yes/No	If yes, No.of classes through LCD	Student Centric Teaching Methods		
						Experiential Learning	Participative Learning	Problem Solving Methodology
	BA-I	State Politics	ICT	✓	01	—	✓	—
	BA-I	Evolution theory	ICT	✓	03	—	✓	—
	BA-II	Fundamental Rights	ICT	✓	02	—	✓	—
	BA-II	Union Judiciary	ICT	✓	02	—	✓	—
	BA-III	Game Theory	ICT	✓	03	—	✓	—
	BA-III	Public Administration	ICT	✓	02	—	✓	—
	BA-III	Theories of Inter	ICT	✓	05	—	✓	—
	"	-nal Relations	"	—	—	—	—	✓

Ramya

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S.VM. Arts, Science and
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College Code: 6218

S.V.M ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL-587125
P. G DEPARTMENT OF COMMERCE
Advance Learners
2023-24

M.COM
DR-11-24

Class	Name
M.Com I Year	1. Anjali 2. Suma S Tegginamani 3. Vaishnavi Mahipati Kulkarni 4. Chaitra Chindi 5. Soumya Challagidad 6. Vidyashree Mrutyunjay Kalasamath 7. Varsha Jinde 8. Vidhyadhare Bekinal 9. Sudha Suresh Dhoopad 10. Swati Goudar 11. Nagaratna Basavaraj Juchani 12. Arpita Kendhuli 13. Shivaraj Talawar 14. Savita M Gudur 15. Honnamma Madivalar 16. Pooja Gudiyal 17. Anita 18. Puttaraj Basavaraj Sudi 19. Kiranakumara Gurikara 20. Subbanna 21. Priyanka Vaddara 22. Bhavana Kasturi 23. Sangeeta Rathod 24. Savitri.B.B 25. Ashwini Sharanappa Bhoviwaddar 26. Sujata Konnur
M.Com II Year	1. Ashwini Arjuna Nayak 2. Kaveri I Handiganoor 3. Ateeka Benakatti 4. Ambaji Daihinde 5. Bhagyamma 6. Alfiya Naaz Guddad

	7. Shivarajkumar Sanga
	8. Vijayalakshmi Patil
	9. Preeti Mallikarjun Basarigidad
	10. Mamataj Begum Roudar
	11. Chaitra I Chuncha
	12. Manojakumar Bellad
	13. Ashwini R Bhavimani
	14. Soumya
	15. Pavitra Hanagandi
	16. Radhika Ilal
	17. Shriraksha V Kavishetti
	18. Sangeeta Hallur
	19. Shabina Ballari
	20. Irranagouda Patil
	21. Pratiksha Totiger
	22. Aruna Walikar
	23. Deepa Kiragi
	24. Kavita A Kandagal

HOD
PG Dept. of Commerce
SVM Arts, Science & Commerce College ILKAL

Sl.No	Register No	Name	M/F	Cast / Category
01	P26YX23A0 59001	Yallakka S. Gaidar	Female	
02	P26YX23A0 59002	Prabhayya Saraganachari	Male	
03	P26YX23A0 59003	Harish Naik	Male	
04	P26YX23A0 59004	Laxmavva	Female	
05	P26YX23A0 59006	Shashikumar Rakkasagi	Male	
06	P15IB22A0 59001	Annapuran Kanasavi	Female	
07	P115922A0 59002	Pallavi Madiwalar	Female	
08	P115922A0 59003	Geeta Meti	Female	
09	P115922A0 59004	Neelamma Bhikshavatimath	Female	
10	P115922A0 59008	Netra Ganachari	Female	
11	P115922A0 59009	Ashwini	Female	
12	P115922A0 59011	Ashwini Kulkarni	Female	
13	P115022A0 59012	Hanamantappa Battaragi	Male	
14	P115922A0 59014	Ramesh Hawaldar	Male	
15	P151922A0 59016	Manjula Hurmalli	Female	

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S.V.M.Arts, Science and
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SVM Arts, Science and Commerce College, Ilkal-587125

Department of : Kannada

Enrichment Classes for Advance Learners

Class:

Year: 2 o 2 3 - 2 4

SLNo	Date	Name of the Staff	Topic covered	Signature of the staff
01	25|1|2024	Dr. M. B. Onti	ತುಳಂಕಾರನ ಅರ್ಥ, ಸ್ವರೂಪ ಮೂಲೆಮಾಣಿ	
02	01|02|24	Dr M. B. onti	ವ್ಯವಹಾರಮುಖ್ಯ.ತ ಕೀರ್ತನ ಸಾಹಿತ	
			ಶೈಕ ನ್ನ೪ ಲ - ಲ೪ ಹೊಲ	
03	05|02|24	Dr. M. B. onti	Primary Epics and Later Epics	
04	07|02|24	Smt. S. V. Patil	ನಮ್ಮ ಹೆಲಬು ಸಾಲಷ್ಟ ಎಷ್ಟೆ	
05	04|03|24	Smt. S. V. Patil	ಇಕ್ಕೆವೆನೆಗ ಸೃಜನಾಶ	
06	19|3|24	Shri M. G. Hadalur	ಕನಾಟಕ ಸಂಸ್ಕೃತಿಗೆ ಕೈಮಕನಗ ಕೈ೪ಮುಗ	
07	22|7|24	Dr. M. B. onti	Theory of Imitation	
08	3|8|24	Dr. M. B. onti	ಸಂಶೆಲೆ೩ಷನ ಲ೪ಲಕೆಟ೪ಲು	
09	28|8|24	Smt S. V. Patil	ಕನಾಸಾಕನ ನ೪ಕೆರಲಲು (ಎಲಕ್ಷ೬ಗ೧ನ)	
10	31|8|24	Shri M. G. Hadalur	ಲೆಕ್ಷ೪ಕನ ನಾಲಕ೪.	

PRINCIPAL
S.V.M.Arts, Science and
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Head of the Department
ಕನ್ನಡ ಸ್ನಾತಕೋತ್ತರ ವಿಭಾಗ
ಎಸ್.ವಿ.ಎಂ. ಮಹಾವಿದ್ಯಾಲಯ; ಇಳಕಲ್

SVMV Society's

SVM Arts, Science and Commerce College, Ilkal-587125

Department of :

Student Attendance for Advance Learners

Sl.No	Reg.No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
01	P263/Kt340/598m)	Yallakka. S. Goudae	1	1	2	3	3	4	5	6	7	8										
02	Ao59002	Prabhayya Saraganahor	1		1	2	3	4	5	6	6	6										
03	Ao59003	Harish Naik	1	2	3	4	4	5	6	7	7	8										
04	Ao59004	Laxmanna	1	1	2	3	4	4	5	6	6	6										
50	Ao59006	Shashikumar Pattasagi	1	2	3	3	4	5	6	6	7	8										
90	P15118340/59bai	Annapurna Vonagavi	1	2	3	4	5	5	6	7	8	9										
07	P15922A0/59002	Pallavi Madiwalar	1	2	3	4	5	5	6	7	8	9										
08	P15922A0/59002	Geeta Meti	1	1	2	3	4	5	6	6	7	8										
09	Ao59004	Neelamma Bhilshavatimath	1	1	2	3	4	5	5	6	7	7										
10	Ao59008	Neelaa Ganachari	0	1	2	3	3	4	5	6	7	7										
11	Bo59009	Ashwini	0	1	1	2	3	4	5	6	7	8										
12	Ao59011	Ashwini kalkani	1	2	2	3	4	5	6	7	8	8										
13	Ao59012	Nanganahappa Sattaagi	0	1	2	3	3	4	5	6	6	7										
14	Ao59014	Ramesh Hawaldar	0	1	2	3	4	5	6	6	7	7										
15	Ao59016	Manjula Hunnalli	0	0	1	2	3	4	5	6	6	6										

SVMVV Society's

SVM Arts, Science and Commerce College, Ilkal - 587125

Department of : COMMERCE

Student List of Advance Learners

Sl.No	Register No	Name	M/F	Cast / Category
01	P264x23CO12 001	Anjali	F	3B
02	P264x23CO12 002	Suma S. Tegginamani	F	2A
03	CO12003	Vaishnavi Mahipati Kulkarni	F	GM
04	CO12005	Chaitra Chindi	F	2A.
05	CO12007	Vidyashree M. Kalasamath	F	2A
⬇	CO12008	Varsha Jinde	F	3B
07	CO12019	Kavya Sangamesh Koloormath	F	3B.
08	CO12026	Nagaratna Basavaraj Juchan	F	2A
09	CO12023	Swati Goudar	F	3B.
10.	CO12011	Sujata Komnur	F	2A
11	P15JO22CO 12002.	Kaveri Handiganoor	F	3B
12	CO12003	Areeka Benakatti	F	2B
13.	CO12005	Bhagyamma	F	3B
14	CO12006	Alfiya naaz Guddad	F	2B
15	CO12010	Preeti Mallikarjun Basarigidad	F	2A
16	CO12011	Mamataj Begum Boudar	F	2B
17	CO12014	Ashwini R Bhavimani	F	2A
18	CO12016	Pavitra Haragandi	F	3B
19	CO12020	Shriraksha V Kavishetti	F	3B.
20	CO12027	Kavita A Kandagal	F	3B.

SVM Arts, Science and Commerce College, Ilkal-587125

Department of : Commerce

Enrichment Classes for Advance Learners

Class:　　　　　　　　　　　　　　　　　　Year:

Sl.No	Date	Name of the Staff	Topic covered	Signature of the staff
01	10/01/24	P. V. Ganiger	Basic Accounting Principles: Concepts and Postulates.	ℬ⁴ᵧ
02	22/01/24	P. M. Vnachagi	Marketing: Concepts and approaches marketing Channels	₨⁴
03	05/02/24	A. B. Koti	Human resources management Concept role and functions of HRm	Amtal
04	26/02/24	P. M. Vnachagi	Product decisions: Factors affecting Price determination Pricing Policies and Strategies	₨⁴
05	01/06/24	P. V. Ganiger	Partnership Accounts Admission, Retirement Death, Dissolution and Insolvency of partnership firm	ℬ⁴ᵧ
06	20/06/24	A. B. Koti	Recruitment and Selection: Training and development	Amtal

Head of the Department
PG Dept. of Commerce

SVM Arts, Science and Commerce College, Ilkal-587125

Department of: Commerce

Student Attendance for Advance Learners

SLNo	Reg.No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
01	P264Y23018	Anjali	1	2	2	3	4	5	6	6	7	8	9	10	11	12						
02	P264X23cube	Suma S Teggihanni	1	2	3	3	4	5	9	7	8	9	9	10	11	12						
03	CO2003	Vaibhavi M Kulkarni	1	2	2	4	4	5	6	7	7	8	9	10	10	11						
04	CO2005	Chaitra Chindi	1	2	2	3	4	5	6	9	7	8	9	10	11	12						
05	CO12007	Vidyashree M Kalaburgi	1	2	3	3	4	5	5	6	7	8	9	10	11	12						
06	CO12008	Varsha Tonde	1	2	3	4	4	5	6	7	8	9	9	10	11	12						
07	CO12019	Kavya S kalaburagi	1	1	2	3	3	4	5	6	7	8	8	9	10	11						
08	CO13.026	Nagaratna B Jurbadi	1	2	3	4	5	6	7	7	8	9	10	10	11	12						
09	CO12033	Sujata Gowdar	1	2	3	3	4	5	6	6	7	8	9	10	11	12						
10	P15TO3 cube	Kaveri Handiganoor	1	2	2	3	4	5	5	6	7	8	9	10	11	12						
11	CO13003	Atuka Banakatti	1	1	2	3	4	5	6	7	8	9	9	10	11	12						
12	CO1900s	Bhagyamma	1	2	3	4	4	5	6	9	7	8	9	10	10	11						
13	CO1200s	Alfunnar Guddod	1	2	2	3	4	5	6	7	8	9	9	10	11	12						
14	CO1011	Mamtaj Begum Roudi	1	1	2	3	4	5	9	7	8	9	9	10	11	12						
15	CO1016	Pavitra Havageodi	1	1	2	3	3	4	5	6	7	8	9	10	11	11						
16	CO1020	Shriraksha V Kavikatti	1	2	3	3	4	5	7	7	7	8	9	10	11	11						
17	CO13027	Kavita A Kandagal	1	2	3	4	5	5	9	7	8	9	10	11	11	12						

SVM Arts, Science and Commerce College, Ilkal -587125

Teachers Using ICT with LMS, E-learning resources

Name of the faculty: P.M. Loachaqi   Year: 2023-2024   Department: Commerce

LNo	Class	Topic	e-Resources Used	Use of LCD Yes/No	If yes, No. of classes through LCD	Student Centric Teaching Methods		
						Experiential Learning	Participative Learning	Problem Solving Methodology
01	M.com I	Management Accounting	e-PG Pathshala	Yes	03			
02	M.com III	DFM	e-Gyankosh	Yes	02			
03	M.com I	Applied Economics for Busin..	TCAT	Yes	04			
04	M.com III	FRS	e-PG Pathshala	Yes	03			
05	M.com I	Corporate Restructuring	e-PG Pathshala	Yes	05			
06	M.com IV	GST & Customs	TCAT	No	00			
07	M.com III	AFSI	e-PG Pathshala	No	00			
08	M.com IV	Business Ethics & Corporate Governance	e-Gyankosh	Yes	no			
		-do-						

SVM Arts, Science and Commerce College, Ilkal -587125

Teachers Using ICT with LNS, E-learning resources

Year: 2023 - 2024   Department: Commerce

Name of the faculty: P. V. Ganiger

Sl.No	Class	Topic	e-Resources Used	Use of LCD Yes/No	If yes, No.of classes through LCD	Student Centric Teaching Methods		
						Experiential Learning	Participative Learning	Problem Solving Methodology
01	M.Com I	Nature and Scope of Fm	e-PG Pathshala	Yes	02			
02	M.Com III	Human Resources Accounting	IT AI	Yes	04			
03.	M.Com I	Marketing Management	e-PG Pathshala-2uo	Yes	05			
04	M.Com III	Innovations in Account	TCWA	No	00			
05	M.Com II	Quantitative Technique	e-PG Pathshala	No	00			
06	M.Com IV	Techniques of Costing	ICAI	Yes	02			
07	M.Com III	Dynamics of ED	NPTEL	Yes	04			
08	M.Com IV	Business Ethics	ICWA	Yes	03			

SVM Arts, Science and Commerce College, Ilkal -587125

Teachers Using ICT with LNS, E-learning resources

Name of the faculty: A. B. Koti

Year: 2023-24   Department: Commerce

L.No	Class	Topic	e-Resources Used	Use of LCD Yes/No	If yes, No.of classes through LCD	Student Centric Teaching Methods		
						Experiential Learning	Participative Learning	Problem Solving Methodology
01	M.Com I	Advanced Corporate Accounting	TCAT	No	00			
02	M.Com II	Advanced Financi-al Accounting	TCWA	Yes	02			
03	M.Com III	OEC-Strategies of Teaching	e-RePatha -Shala	Yes	05			
04	M.Com IV	Investment Analy -sis and Portfolio Management	TCAT	Yes	04			

SVM Arts, Science and Commerce College, Ilkal-587125

Department of : Physics

Remedial Classes for Slow Learners

Class: V and VI Semester   Year: 2023 - 24

Sl.No	Date	Name of the Staff	Topic covered	Signature
1	13-12-23	K. S. Ganiger	old question paper solved	
2	20-12-23	P. D. Ekbote	problems solved on molecular spectra	
3	3-01-24	A. S. Hugar	Important questions solved	
4	09-01-24	Praburaj I Hiremath	previous question papers solved	
5	18-01-24	B. M. Nadaf	Important derivations solved on quantum mechanics	
6	13-06-24	K. S. Ganiger	previous questions solved	
7	19-06-24	P. D. Ekbote	Important questions discussed on digital electronics	
8	26-06-24	A. S. Hugar	problems solved on crystal studies	
9	3-7-24	Praburaj I Hiremath	Important problems solved on mathematical physics	
10	18-7-24	B. M. Nadaf	Important problems solved on nuclear physics	

Head Of the Physics Department
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SVMVV Society's

SVM Arts, Science and Commerce College, Ilkal-587125

Department of Physics

Student Attendance for Slow Learners B.Sc V Sem 2023-24

Sl.No	Reg.No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	U15IQ21S0002	DEEPA SHIVAKUMAR KUDALAGIMATH						AB														
2	U15IQ21S0035	VINAY BASALINGAPPA KUNTOJI						AP														
3	U15IQ21S0041	SIDDARTH PARAPPA BILAGI						A-D														
4	U15IQ21S0043	CHANDRASHEKHAR H HUGAR																				
5	U15IQ21S0051	RAJU LAXMAN CHANDRAGIRI																				
6	U15IQ21S0055	AYYAPPA GURULSANGAYYA SUKALIMATH																				
7	U15IQ21S0059	KAVITA MAHANTESH ANGADI																				
8	U15IQ21S0064	SUDEEP RAVI SINDAGI																				
9	U15IQ21S0091	BHAGYASHREE NINGAPPA METI																				
10	U15IQ21S0103	ANUPRIYA MATUR																				
11	U15IQ21S0112	MURAGENDRA KEMBHAVIMATH																				
12	U15IQ21S0114	AKSHATA KALAMALLI						A1 A2														
13	U15IQ21S0139	VISHALAKSHI SIDDALINGAPPA BANDI																				
14	U15IQ21S0152	SOUMYA BASAPPA AMINGAD																				
15	U15IQ21S0165	ANUPAMA JOLADADAGI																				
16																						
17																						

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Class: BSc IV II Semester

Year: 2023-2024

Sl.No	Date	Name of the Staff	Topic covered	Signature
1	20-12-23	K. S. Ganiger	Discussed on Examination pattern -	Ca
2	2-01-24	P. D. Ekbote	Important hints to score in the Examination.	V
3	10-01-24	A. S. Hugar	problems solved on conservation laws	Prima
4	29-01-24	prabaraj I Hiremath	problems and Important questions on gravitation	P
5	1-02-24	B. M. Nadaf	previous question papers solved	But
6	9-05-24	K. S. Ganiger	Important questions solved on Electricity	Cm
7	16-05-24	P. D. Ekbote	Important problems and questions solved on RC-RL circuits	V
8	30-05-24	A. S. Hugar	problem solved on Dielectrics.	Bam
9	6-6-24	prabusaf I. Hiremath	Important long questions solved.	P
10	20-06-24	B. M. Nadaf	problems solved on Network theorem	But

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SVM Arts, Science and Commerce College, Ilkal-587125

Department of Physics

Student Attendance for Slow Learners B.Sc I Sem 2023-24

SLNo	Reg.No	Name										11	12	13	14	15	16	17	18	19	20
1	U26YX2350007	IRAMMA DESHETTI																			
2	U26YX2350028	DEEPA MUTTANNA RATHOD																			
3	U26YX2350037	MOHAMMADATAHIR IMAMSAB MANGALORE																			
4	U26YX2350046	MUKHARAF BIALEKUDARI																			
5	U26YX2350048	SAMEER WALIKAR																			
6	U26YX2350051	NIRUPADIHA NAMAGOUDA GOUDAR																			
7	U26YX2350131	SUHASC METI																			
8	U26YX2350133	SOMAYYA R BENNUHMATH																			
9	U26YX2350145	BHOOMIKA CHAVAHNA																			

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SVM Arts, Science and Commerce College, Ilkal-587125

Department of : physics

Remedial Classes for Slow Learners

Class: III and IV Semester   Year: 2023-24

SLNo	Date	Name of the Staff	Topic covered	Signature
1	5-12-23	K.S Ganiger	Discussion on previous question papers	
2	18-12-23	P.D. Ekbote	Impartant Nots to appear semester Exam	
3	1-01-24	A.S Hugar	Important problems solved on different topics	
4	16-01-24	Prabwraj I Hiremath	problems solved on different topics	
5	06-02-24	B.M. Nadaf	Important questions discussed on diffraction and polarisation	
6	11-06-24	K.S Ganiger	Important questions on different topics	
7	17-06-24	P.D. Ekbote	problems solved on digital electronics	
8	25-06-24	A.S Hugar	previous question papers solved	
9	09-7-24	Prabwraj I Hiremath	problems solved on different topics	
10	22-7-24	B.M. Nadaf	Examination asked question	

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SVM Arts, Science and Commerce College, Ilkal-587125

Department of Physics

Student Attendance for Slow Learners B.Sc III Sem 2023-24

Sl.No	Reg.No	Name									10	11	12	13	14	15	16	17	18	19	20
1	U15IQ22S0019	SEETANAGOUDA LAXMANAGOUDA																			
2	U15IQ22S0027	SWARAJ SANGAPPA NAGARALA																			
3	U15IQ22S0062	MANJUNATH BELLIHAL																			
4	U15IQ22S0076	SACHIN GATTI																			
5																					
6																					
7																					
8																					
9																					

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SVM ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL-587125
DEPARTMENT OF PHYSICS
STUDENT LIST OF ADVANCE LEARNERS

CLASS: I SEM   YEAR –2023-24

SL.NO	REGISTER NO	NAME	M/F	CAST/CATEGORY
1	U26YX23S0001	ASHWINI HOOVAPPA NANDAWADAGI	F	
2	U26YX23S0012	SANIYA TAWARGERI	F	
3	U26YX23S0025	SHANKRAMMA BIJAL	F	
4	U26YX23S0035	AISHWARYA SHARANAPPA CHALVADI	F	
5	U26YX23S0038	APEKSHA JUNJA	F	
6	U26YX23S0084	SWATI MALLIKARJUN KURABARA	F	
7	U26YX23S0088	ANUSHA HUDEAD	F	
8	U26YX23S0090	SPANDANA SHARANAGOUDA MANGYAL	F	
9	U26YX23S0104	SHAINAZBEGUM HASANSAB BABANAGAR	F	
10	U26YX23S0107	KIRAN MANJUNATH VAGGA	M	
11	U26YX23S0119	SOUNDARYA RAMANAGOUDA HULLALLI	F	
12	U26YX23S0137	ANITA BADIGER	F	
13	U26YX23S0141	SUMANGALA	F	
14	U26YX23S0142	YASHASWINI	F	

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SVMVV Society's

Department of Physics

Student Attendance for Advance Learners B.Sc I Sem 2023-24

Sl.No	Reg.No	Name	3			4	5	6		8	9	10	11	12	13	14	15	16	17	18	19	20
1	U26YX23S0001	ASHWINI HOOVAPPA NANDAWADAGI																				
2	U26YX23S0012	SANIYA TAWARGERI																				
3	U26YX23S0025	SHANKRAMMA BIJJAL																				
4	U26YX23S0035	AISHWARYA SHARANAPPA CHALVADI																				
5	U26YX23S0038	APEKSHA JUNJA																				
6	U26YX23S0084	SWATI MALLIKARJUN KURABARA																				
7	U26YX23S0088	ANUSHA HUDEAD																				
8	U26YX23S0090	SPANDANA SHARANAGOUDA MARNEYAL																				
9	U26YX23S0104	SHAINAZBEGUM HASANSAB																				
10	U26YX23S0107	KIRAN MANJUNATH VAGGA BABANAGAR																				
11	U26YX23S0119	SOUNDARYA RAMANAGOUDA HULLALI																				
12	U26YX23S0137	ANITA BADIGER																				
13	U26YX23S0141	SUMANGALA																				
14	U26YX23S0142	YASHASWINI																				

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SVM Arts, Science and Commerce College, Ilkal-587125

Department of : physics

Enrichment Classes for Advance Learners

Class: I & II semester.

Year: 2023 - 24

Sl.No	Date	Name of the Staff	Topic covered	Signature of the staff
1	21-12-23	K. S. Ganiger	Seminar given to Ashwini. H Nandavadagi on Angle of contact & pressure across spherical surface	Qu
2	3/1/24	P. D. Ekbote	Given important hints to score maximum marks	V
3	11/1/24	A. S. Hugar	Seminar by Saniya Tawargeri on conservation theorem of linear momentum	
4	28/1/24	P. I. Hiremath	Seminar by Shankramma Bijjal topic - Satellites	Dull
5	2/2/24	B. M. Nadaf	Seminar by Aishwarya S. chalavadi topic Rel^n between three Elastic constants	3f
6	16/5/24	K. S. Ganiger	Solved Important problems on different topics	Qu
7	23/5/24	P. D. Ekbote	Seminar by Apeksha Iunja topic - Single Stage Rocket	V
8	09/6/24	A. S. Hugar	Seminar by Swati in Kerulkar topic - Elastic collision	
9	20/6/24	P. I. Hiremath	Seminar by "Anusha Hadei" topic - Bending beam	
10	11/7/24	B. M. Nadaf	Seminar by "Spandana S mangyal topic - Cantilever	

SVM ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL-587125
DEPARTMENT OF PHYSICS
STUDENT LIST OF ADVANCE LEARNERS

CLASS: III SEM   YEAR -2023-24
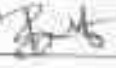
SL.NO	REGISTER NO	NAME	M/F	CAST/CATEGORY
1	U15IQ22S0002	VAISHALI SANGAPPA KAMATAGI	F	
2	U15IQ22S0003	PRIYANKA GOUDAPPA BIRADAR	F	
3	U15IQ22S0010	CHAMUNDESHWARI HANUMAPPA	F	
4	U15IQ22S0011	HARSHITA VIJAYENDRA KULAKARNI	F	
5	U15IQ22S0026	AMARANATH MALLANNA HULI	M	
6	U15IQ22S0033	VISHAL SANGAPPA SONNAD	M	
7	U15IQ22S0054	SAHANA DEVARAJ NAGALIKAR	F	
8	U15IQ22S0064	MARUTHI MARIYAPPA GUDIMANI	M	
9	U15IQ22S0070	NINGAMMA CHANNAPPA HIREMANI	F	
10				

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SVMVV Society's

Department of Physics

Student Attendance for Advance Learners B.Sc III Sem 2023-24

Sl.No	Reg.No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	U15IQ22S00Q2	VAISHALI SANGAPPA KAMATAGI																				
2	U15IQ22S0003	PRIYANKA GOUDAPPA BIRADAR																				
3	U15IQ22S0010	CHAMUNDESHWARI HANUMAPPA																				
4	U15IQ22S0011	HARSHITA VIJAYENDRA KULAKARNI																				
5	U15IQ22S0026	AMARANATH MALLANNA HULI																				
6	U15IQ22S0033	VISHAL SANGAPPA SONNAD																				
7	U15IQ22S0054	SAHANA DEVARAJ NAGALIKAR																				
8	U15IQ22S0064	MARUTHI MARIYAPPA GUDIMANI																				
9	U15IQ22S0070	NINGAMMA CHANNAPPA HIREMANI																				

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SVM Arts, Science and Commerce College, Ilkal-587125

Department of : physics

Enrichment Classes for Advance Learners

Class: BSc - III & IV Semester   Year: 2023-24

Sl.No	Date	Name of the Staff	Topic covered	Signature of the staff
1	11-12-23	K. S. Ganiger	seminar by vaishali S. Kamalagi topic: superposition waves	
2	@19-12-23	P. D. Ekbote	seminar by priyanka G. Birada topic - Types of wave & their properties	
3	2/1/24	A. S. Hugar	seminar by chamunde Swati H topic: Interference by thin films	
4	23/1/24	P. I. Hiremath	Seminar by Harshita V Kulkarni topic Stationary waves and their character	
5	30/1/24	B. M. Nadaf	Seminar by Amaranath Muli topic, zone plate & its construction	
6	10/6/24	K. S. Ganiger	seminar by vishal s. Sonnada topic: Rectifiers & types of rectifier.	
7	19/6/24	P. D. Ekbote	seminar by "sahana A. Nagalikas" topic operational amplifier	
8	2/7/24	A. S. Hugar	Seminar by "Maruti Gudimani" topic maxwells Thermodynamical self's	
9	15/7/24	P. I. Hiremath	seminar by : Nirupama Hiremani . topic: first law of Thermodynamics	
10	23/7/24	B. M. Nadaf	Seminar by Harshita V. Kulkarni topic - Transistor & its types	

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SVM ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL-587125
DEPARTMENT OF PHYSICS
STUDENT LIST OF ADVANCE LEARNERS

CLASS: V SEM   YEAR -2023-24

SL.NO	REGISTER NO	NAME	M/F	CAST/CATEGORY
1	U15IQ21S0007	VAISHNAVI KULKARNI	F	
2	U15IQ21S0008	VIJAYALAXMI BEERAPPA TEMINAL	F	
3	U15IQ21S0009	BHEEMAMMA MAHANATESH BANDI	F	
4	U15IQ21S0015	PRATIBHA CHIDANANDA BISANAL	F	
5	U15IQ21S0017	P ASHWINI	F	
6	U15IQ21S0023	RAJSHEKHAR	M	
7	U15IQ21S0024	A MANJUSHREE	F	
8	U15IQ21S0025	KAVERI RAVINDRAGOUDA NAYANEGALI	F	
9	U15IQ21S0026	CHITTRANAL GAYATRI RAMAPPA	F	
10	U15IQ21S0053	UMA LAKSHAMAN ERAPALLI	F	
11	U15IQ21S0061	ARPITA SHIVANAND CHALAGERI	F	
12	U15IQ21S0068	MAHALAXMI GANGADHAR SARAGANACHARI	F	
13	U15IQ21S0072	SHIVALEELA KALLANAGOUDA VANAGERI	F	
14	U15IQ21S0074	NETRAVATI MALLAPPA BANNATTI	F	
15	U15IQ21S0075	HULIGEMMA GANGAPPA SINDHANDOR	F	
16	U15IQ21S0076	SAHANA	F	
17	U15IQ21S0077	SUJATA MAHANTESH RODDA	F	
18	U15IQ21S0090	VIDYASHREE MAHANTESH PATIL	F	
19	U15IQ21S0106	NISARGA BARASHETTI	F	
20	U15IQ21S0113	SRUSTHI MALLIKARJUN GOOLI	F	
21	U15IQ21S0129	TEJASHWINI HULAGAPPA MOOKI	F	
22	U15IQ21S0144	BHAGYASHRI NEKAR	F	
23				
24				

Head Of the Physics Department
S.V.M. Arts, Science & Commerce
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SVMVV Society's

Department of Physics

Student Attendance for Advance Learners B.Sc V Sem 2023-24

S.No	Reg.No	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	U15IQ21S0007	VAISHNAVI KULKARNI																				
2	U15IQ21S0008	VIJAYALAXMI BEERAPPA TEMINAL																				
3	U15IQ21S0009	BHEEMAMMA MAHANATESH BANDI																				
4	U15IQ21S0015	PRATIBHA CHIDANANDA BISANAL																				
5	U15IQ21S0017	P ASHWINI																				
6	U15IQ21S0023	RAJSHEKHAR																				
7	U15IQ21S0024	A MANJUSHREE																				
8	U15IQ21S0025	KAVERI RAVINDRAGOUDA NAYANEGALI																				
9	U15IQ21S0026	CHITTRANAL GAYATRI RAMAPPA																				
10	U15IQ21S0053	UMA LAKSHAMAN ERAPALLI																				
11	U15IQ21S0061	ARPITA SHIVANAND CHALAGERI																				
12	U15IQ21S0068	MAHALAXMI GANGADHAR SARAGANACHARI																				
13	U15IQ21S0072	SHIVALEELA KALLANAGOUDA VANAGERI																				
14	U15IQ21S0074	NETRAVATI MALLAPPA BANNATTI																				
15	U15IQ21S0075	HULIGEMMA GANGAPPA SINDHANOOR																				
16	U15IQ21S0076	SAMANA																				
17	U15IQ21S0077	SUJATA MAHANTESH RODDA																				
18	U15IQ21S0090	VIDYASHREE MAHANTESH PATIL																				
19	U15IQ21S0106	NISARGA EARASHETTI																				
20	U15IQ21S0113	SRUSTHI MALLIKARJUN GOOLI																				
21	U15IQ21S0129	TEJASHWINI HULAGAPPA MOOKI																				
22	U15IQ21S0144	BHAGYASHRI NEKAR																				

SVM Arts, Science and Commerce College, Ilkal-587125

Department of : physics .

Enrichment Classes for Advance Learners

Class: BSc - V & VI Semester   Year: 2023-24 .

Sl.No	Date	Name of the Staff	Topic covered	Signature of the staff
1	4-12-23	K.S. Ganiger	Seminar by vaishanvi Kulkarni topic. Langrange's Equations.	Gu
2	12-12-23	P.D. Ekbote	Seminar by Vijayalaxmi B. Temined topic: Types of molecular motion	℃
3	1/1/24	A.S. Hugar	Seminar by Bheemamma Bandi, Topic: vector atomic model.	Amm
4	16/1/24	P.I. Hiremath .	Seminar by pratibha C. Besanal topic - Thermodynamic probability.	Prall
5	29/1/24	B.M. Nadaf	Seminar by P Ashwini Topic: deBroglie hypothesis.	But
6	11/6/24	K.S. Ganiger	Seminar by "Rajashekar" Topic: classification of magnetic materials.	Gu
7	25/6/24	P.D. Ekbote	Seminar by: A manjushree Topic : principle construction and working of CRO	℃
8	8/7/24	A.S. Hugar .	Seminar by "Kaveri R. Nayanegali" topic seven crystal System "	Amm
9	22/7/24	P.I. Hiremath.	Seminal by Gayatri R. chitranal. Topic: Dirichlet conditions"	Prall
10	5/8/24	B.M. Nadaf	Seminar by "Mahalaxmi Ganachari" Topic G.m. counter.	But

S.V.M.V.V.Socletlety's

S.V.M.ARTS,SCIENCE & COMMERCE COLLEGE,ILAKL

ILKAL - 587125

DEPARTMENT OF COMPUTER SCIENCE

FOR THE YEAR : 2023 -24

SEMINAR TOPIC

NORMAL,BINOMIAL,POISSON DISTRIBUTION

NAME	: SUSHMA.S
CLASS	: BSC 6TH SEM
REG NO	: U15IQ21S0036
SUBMITTED TO	: SHANKARGOUDA.SUNKAD SIR

Normal Distribution:-

It is a probability function used in statistics that tells about how the data values are distributed. It is the most important probability distribution function used in statistics because of its advantages in real scenarios. For Example, the height of the population, shoe size, IQ level, rolling a dice, and many more. It is generally observed that distribution is normal when there is a random collection of data from independent sources. The graph produced after plotting the curve of the variable on x-axis and count of the value. The graph is symmetric distribution. In R, there are 4 built-in-functions to generate normal distribution.

* dnorm()
  dnorm (x, mean, sd)

* pnorm()
  pnorm (x, mean, sd)

* qnorm()
  qnorm (p, mean, sd)

* rnorm()
  rnorm (n, mean, sd)

Poisson Distribution :-

It is a probability distribution that Expresses the number of events occuring in a fixed interval of time or space, given a constant average rate. This distribution is particularly useful when dealing with rare events or incidents that happen independently.

. It is a probability distribution that describes the number of events that occur within a fixed. interval of time or space. If λ is the mean occurrence per interval :

$$P(X = k) = \frac{e^{-\lambda} \lambda^k}{k!}$$

Uses Poisson distribution When

1) Events unfold randomly and autonomously, where the likelihood of one event occuring does not influence the likelihood of another.

2) The average rate of events within a specific timef -rame or space, denoted as λ. is known and presumed to be consistent

3) When events adhere to a poisson distribution, λ serves as the singular parameter neccessary for deforming the probability number of events taking place.

ತಾಳಿಕೆನ್ನತ್ತು ಎಳ್ಳೆಎಚ್ಯಾಲಂವು ಬೆಳ್ಗಾಎ

ಶ್ರೀ ಎಜಯ ಮಹಾಂಣೇಶ ಕಲೆ ಎಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಹೆದಎ ಮಹಾಎಚ್ಯಾಲಂವು ಇಲಕಲ್ಲ

ಕನ್ಯತ ಸ್ನಾತಕೊಲ್ಲ್ಟೆ ಎಬ್ಥಾಗ

ಎಚಾರ ಸಂಕಿ೦ನ

ಎದ್ಯಾರ್ಥಿ ಹೆಸರು - ಗೀತಾ. ಎಸ್. ಬೋೞಟೆ

ಎಷ್ಷಂಚು   — ಎಣಜ ನಾಡಕಳಹಳ್ಳನ ಸ್ತ್ರೀ ಸಂಚೇಡನೆ

ಹೆಖುಸ್ಟೆರ್ — IIInd

ಹೆಳ್ಳಿಕೆ   — 3.3 ಕನ್ಯಡ ಮಿಾಕ್ಳ್ಳ ಸ್ನಾಕ್ಳ್ಟೆ ಬೆಳ್ಳಿಕಳ್ಳ್

ಮಾಗಣಳಳಳ ಕಡಿ - ಶ್ರೀ. M.H. ಹೊಂಡ್ಳಳ

ಮುಖ್ಯಸ್ಥ
ಕನ್ನಡ ಸ್ನಾತಕೋತ್ತರ ವಿಭಾಗ
ಎಸ್.ಬಿ.ಎಂ. ಮಹಾವಿದ್ಯಾಲಯ, ಇಲಕಲ

* ಆಧುನಿಕ ಸಾಹಿತ್ಯದಲ್ಲಿನ ಸ್ತ್ರೀಯರ ಚಿಂತನೆಗಳು.

[illegible] ಎಂಬ ಹೆಸರಿನಲ್ಲಿ ದೇವದಾಸಿ, ಕುಲಕರ್ಣಿ [illegible] ಇನ್ನಿತರ [illegible] ಮನುಷ್ಯರ ಮೇಲೆ ನಡೆಯುತ್ತಿರುವ ದೌರ್ಜನ್ಯದ ಕುರಿತು [illegible] ಮುಂದೆ ಶ್ರೀ [illegible] ಬಗ್ಗೆ [illegible] ಅವರ ಮಾನವೀಯತೆಯು [illegible] ಇಲ್ಲಿ ವ್ಯಕ್ತಪಡಿಸಿದ್ದಾರೆ. ದೇವದಾಸಿ :- ಈ ಕಥೆಗೆ [illegible] ಅವಳ [illegible] ಒಂದು [illegible] ಅವಳ [illegible] ಅಕ್ಕ [illegible] ದೇವದಾಸಿ :- [illegible] (ತಿಪ್ಪಾಪುರದ ನಮ್ಮ [illegible]) [illegible] ಎಲ್ಲಾ [illegible] ಅಕ್ಕ [illegible]

ಸಾವಿತ್ರಿ :- ಎಷ್ಟು [illegible] ಈ ದೇವದಾಸಿ [illegible] ಅಂತ [illegible] ಒಂದು [illegible] ಅವಳು [illegible] ಅಂತ [illegible] ಒಂದು [illegible] ಇಲ್ಲ. [illegible] ಅಂತ ನನ್ನ [illegible] ಬಂದಾವಲ್ಲ [illegible] ಇಲ್ಲ.

ಮತ್ತೊಬ್ಬ: (ಕೊಡಗಿನ ಹುಡುಗ ಅಳುತ್ತಿದ್ದ
ತ್ತ ಮುಂದೆ ಬರುವನು. ಸಾವಿತ್ರಿ, ತಲೆ ಕೆದರಿ ಬಸ್ಸಿನ ಹಿಂದೆ ಬಂದು
ನಿಲ್ಲುವಳು ಬಂದು ತೈಲ ಬಸಿರ ಮಗು ನೋಡಿದ ಮಾವಳ ಕಣ್ಣ ಕಲ್ಲಿನ
ಹುಡುಗಿಯನ್ನು ಬಸಿರ ಕಾಲಿಡಿಯುತ್ತ ತಲೆ ತಗ್ಗಿಸಿ ಬಿಕ್ಕುವನು. ಬಸ್ಸು
ನನ್ನು ಮೆಲ್ಲನೆ ಎತ್ತಿ ಅಪ್ಪಿಕೊಂಡು ಸಮಾಧಾನಗೊಳ್ಳುತ್ತಿರುವನು)
ಎಲ್ಲಾ ಇಂಥಾ ಅನಾಹುತ ಮಾಡಿ ನಾವು ಯಾರ ಏಳಿಗೆಗೆ ಆಗುತ್ತ
ರೋಣ. ನಮ್ಮಲ್ಲಿ ಮಾನವೀಯತೆ ಇಲ್ಲವಾಗಿ, ಆ ಕಾಸ್ತೆ ಯೋಚಿಸಿ ಬದುಕಿನ ಕಲ್ಲು
ಹಾಕಿಕೊಂಡು ಹುಡುಗರು ಪೇಲವವಾಗಿ ಇದ್ದ. ಅದನ್ನು ನೋಡುತ್ತಿದ್ದರೆ
ನಗೆ ಬುದ್ಧಿ ಬರಲಿಲ್ಲ ನೋಡಿ. ನಮ್ಮ ಕಣ್ಣ ತೆರೆದ ಹುಡುಗಿ ಈಗ.
ದಾಗ ಇನ್ನ ಸಿಗಲಿದೆಯಾ. ಬದುಕಿನ ಕಷ್ಟವನ್ನರಿತ ಎಲ್ಲರು ಕೂಡಿ
ತಪ್ಪಾಗಿ ಬಾಳ್ವೆ ಮಾಡಲಿ. ನಿನ್ನ ಮಗುವಿಗೆ ಏನೂ ಮಾಡಿ ಕೊಡುತ್ತೇವೆ.
ಹುಟ್ಟಿದ ಜೀವ ಸಾಯುವಲ್ಲ. ಆ ಶಿಕ್ಷಕನಿಗೆ ದೇವರಾಯನ ಹೇಳುವ ಬುದ್ಧಿ
ಕೋಟೆ ಕೋಟಿ ಆ ಬಸಿರನ್ನು ನೋಡಿ ಸಮಾಧಾನ ಮತ್ತು ದೇವರ
ಹೆಸರ ಬರಿ ಕೊಡುವೆನು.

ಉಪಸಂಹಾರ - ಹೀಗೆ ನಾಟಕದಲ್ಲಿನ ಸಂದರ್ಭಗಳನ್ನು
ಸಮಾಜದ ಕಾಯಿಲೆಯನ್ನು ಮತ್ತು ಶ್ರೀಮಂತರನ್ನು ಮಾನಸಿಕ ಸ್ಥಿತಿಯಾಗಿ
ಬಡವ ಮಾಡುವವರ ವಿರುದ್ಧ ಧ್ವನಿ ಎತ್ತಿ ಹೋರಾಡುವಂತಹ
ಮತ್ತು ಮಾನವ ಜೀವನ ಇದೆಲ್ಲದಕ್ಕೂ ಕಣ್ಣಿಗೆ ಒಂದೇ ರೀತಿ
ಯವನ್ನು ಈ ನಾಟಕದ ಮೂಲಕ ಲೇಖಕರು ತಿಳಿಸಿಕೊಟ್ಟಿದ್ದಾರೆ.

ಶ್ರೀ ವಿಜಯ ಮಹಾಂತೇಶ ಕಲೆ, ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ

ಇಳಕಲ್ಲ – 587125 (ಕಾಲೇಜ ಕೋಡ್: 6218)

ರಾಜ್ಯಶಾಸ್ತ್ರ ವಿಭಾಗ

ವಿಷಯ

"ಅಧ್ಯನಯದ ವಿಷಯವಾಗಿ ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಅಧ್ಯಯನ ಅಂತಗಳು"

ಸ್ನಾತಕ ಕಲಾ ವಿಭಾಗ
ಶೈಕ್ಷಣಿಕ ವರ್ಷ : 2023–24

ಯೋಜನಾ ಕಾರ್ಯ ಪ್ರತಿಯನ್ನು ಸಲ್ಲಿಸುತ್ತಿರುವವರು

ನಂದೆಪ್ಪ ಶಿರಹಟ್ಟಿ

ವಿಶ್ವವಿದ್ಯಾಲಯ ಕ್ರಮಾಂಕ :U15IQ21A0051
ಸ್ನಾತಕ ಕಲಾ ವಿಭಾಗ ರಿಗೆಂಬ ಸೆಮಿಸ್ಟರ್

ಯೋಜನಾ ಕಾರ್ಯ ಪ್ರತಿಯನ್ನು ಇದರಿಗೆ ಸಲ್ಲಿಸುತ್ತದೆ

ಡಾ. ಮಹಾದೇವಗೌಡ

ರಾಜ್ಯಶಾಸ್ತ್ರ ವಿಭಾಗ

⇒ ಅಧ್ಯಯನದ ವಿಷಯವಾಗಿ ಅಂತರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು, ಅಧ್ಯಯನ ಸಂಸ್ಥೆಗಳು

ಲೇಖನ :-

ಸಿಂಪ್ರಸಾಯಕ ದೃಷ್ಟಿಕೋನದಿಂದ ಹೇಳುವುದಾದರೆ ಅಂತರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮುಖ್ಯವಾಗಿಯೇ ಪೂರ್ವದ್ದಾಗಿದೆ. ಇವು ಇಬ್ಬ ವೈವಿಧ್ಯಮಯ ಹೊಂದಿದೆ. ಸ್ವತಂತ್ರವಾದ ಒಂದು ಅಧ್ಯಯನ ಶಿಬಿರ ಇವಿ ಅಧ್ಯಯನನ್ನು ವ್ಯಾಪಿಸಿದ. ಸ್ಪಿಲ ಚಿಮ್ಪ್ರೀಕರಣದ ಪ್ರಾಧ್ಯಾಪಕರು ಸಲವು ಅಂತರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಕುರುವಿ ಲಿಂಗ ತೆಯೆಯನ್ನು ಹಿಡಿದಿದೆ. ಇವರ ಒಬ್ಬ ಒಂದ್ಯ ಪ್ರಿಂಗ್ಸ್ಥೆ ಬಳಕೆ. ಇವರಾದ ದೃಷ್ಟಿಕೋನದಿಂದ ಅಂತರಾಷ್ಟ್ರೀಯ ವೈವಿಧ್ಯಮಯ ಗಮನಿಸಬಹುದಾಗಿದೆ.

ಇತಿಪ್ರಿಸೀಯ ತತ್ವಮತದ ಬಳಕೆಯಾದೆಲ್ಲ ಅಂತರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಹಾಗೂ ಅಂತರಾಷ್ಟ್ರೀಯ ರಾಜಕೀಯಗಳ ಅಧ್ಯಯನಕ್ಕೆ ಒಮ ಬಿಸಿಕ್ರಿಯಿಯೆಲ್ಲ ಸ್ಪಿಸ್ಥಾನಾಯಿತು.

ಹೆಂಚಿಸು ಮರಾಯನಸ್ಥದ ಬಳಕೆಯಲ್ಲಿ ಅಂತರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಅಧ್ಯಯನ ಕಾಣಾರಂಭ ಮಾಡಿದೆ. ಇಂಗ್ಲೀಷ್ ಹಾಗೂ ಬಿಸಿಂಗ್ ತತ್ವಜ್ಞಿತ ವಿಶ್ವವಿದ್ಯಾಲಯನಗಳ ಹಿ ವಿಷಯವಾ ಅಧ್ಯಯನ ಪೀಠನ್ನು ಸ್ಥಾಪಿದ್ದಾಗಿ. ಇವುಗಳ ಸುಮಾಸೊಂದ ಅಂತರಾಷ್ಟ್ರೀಯ ರಾಷ್ಟ್ರೀಯ ಬಿಕ್ಷಣಶೆಗಳ ಬೆಳಕಿಗೆ ಅಧ್ಯಯನ ಮಾಡಿವೆಂದು, ಬೇಲಿ "ಲಾಗ್ ಲ್ಯಗ್ ಸೆಟ್ಟಿಸ್ ವ್ಯಪಿಸಿದ್ದು, ಅಂತರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಅಧ್ಯಯನದ ವಿಶ್ವತ್ವ ಗ್ ಸ್ಪಿವೆಯಾಯಿತು"

* ಇಂಗ್ಲೀಷಿನ ನಾಟಕ ಹಾಗೂ ಸಂಸ್ಕೃತ [illegible] ಕಂಪನಿಗಳ [illegible].

* [illegible] ಹಾಗೂ [illegible]-ವಂಥ [illegible] ಪ್ರಶ್ನೆ [illegible].

* [illegible].

* ಇಂಗ್ಲೀಷಿನ [illegible].

* [illegible].

* ಈ ಹಂತವು [illegible].

4) [illegible] ಹಂತ

ಈ ಹಂತವು 1945 ರ ನಂತರ [illegible] 2 ನೇ ಮಹಾಯುದ್ಧದ [illegible]. ಈ [illegible] ([illegible] Realistic school [illegible]. ಈ [illegible]. ಇಂಗ್ಲೀಷಿನ [illegible],

SVMVVS's

S.V.M. ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL

Dept of Political Science
2023-24

SUB : ANCIENT INDIAN POLITICAL IDEAS & INSTITUTIONS

TOPIC: ರಾಜಕೀಯ ಮೂಲಾಧಾರಗಳು

SEMINAR

SUBMITTED BY

NAME: MEGHARAJ D. BADIGER

REG: U151Q22A0055

CLASS: B A 4ᵀᴴ SEM

SUBMITTED TO
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Department of Political Science

HOD
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\# ಪ್ರಾಚೀನ ಭಾರತದ ಮೂಲಾಧಾರಗಳು :—

Introduction

    ' ಪ್ರಾಚೀನ ಕಾಲ್ಲ ಲೆರೆಯಲಿದ್ದಾಗ ಭಾರತೀಯಾ
ವಿದ್ಯಾನ ಭಾರತೀಯರು ನಾಗರೀಕತೆಯ ಲೊಂಬತ್ತುಲ್ಲದೈವ
ಭಾರತೀಯರು ಪ್ರಾಚೀನ ಭಾರತಸ್ಥಿನ ರಾಜಕೀಯ ಸ್ಥಿಲಯನ್ನು
ಲೈಯಮಲು ಪ್ರಾಚೀನ ಭಾರತದ ಮೂಲಾಧಾರಗಳನ್ನ ಉಗ್ರಮಾಸು
ಲಿಸಿಲ್ಪ್ರೊದಾಗಿದೆ.

→ Sources of Early Idian Thought

① ವೇದಗಳು.

② ಸ್ಮೃತಿಗಳು ೨ ಧಮ೯ ಶ್ಯಾಸ್ತ್ರಗಳು.

③ ಉಪನಿಷ್ಕೃತಿ.

④ ＊ ಮುರಾಣಗಳು.

⑤ ಕಾಟಲ್ಯನ ಅಧ೯ ಶ್ಯಾಸ್ತ್ರ.

⑥ ರಾಮಾಯಣ.

⑦ ಮಹಾಭಾರತ.

⑧ ಬಾಷ್ಮ ಳ ಜೈನ ಸಾಹಿತ್ಯಗಳು.

⑨ ಲಾತಿಸಾರಗಳು.

⑩ ವಿಶೇಶಿಲವು ಸಾಹಿತ್ಯಗಳು etc...

ಉದೆಶಿಯ ಮೊಲಕ್ಷ್ಮ

ಉದೆಶಿಯ ರಾಮಖಾಣ್ಸ್ಮ್ಮ, ಪ್ರಿವಾಶಿಗೆಲು ಅಥವ್ಮ
ಉಪಭಿಸಲ್ಲ ಭಾರಿಲಿಶ ಕುಂತಾಗಿ ಉಠಿಶ ಉಂತೆಗ್ಳ ಘಾರಿಲೆಶ
ರಾಜಿಕೆಯು ಸ್ಥಿಶಿಯನ್ನೂ ಒಸ್ಗಸ್ಮುತ್ರೆನೆ.

Ex: ಮೊಗಕೆನ್ಸ್ 'Indica' ಕ್ಮುಟಿಠದಮ್ಮು ಸ್ಮುತ್ತಿರಿ ಒಸ್ಮುಜಿತಮೆನ್ನಿ
ಕೆಂಟಿಮಿ ಒಸ್ಗಸ್ಮುತ್ರೆನೆ.

ಒಂಟಿಮ್ ಸಂಕ್ತಾರಿ:

ಈ ಕುಂಟಿತಾಗಿ ಭಾರಿಲೆಶ ಪ್ರಾಬಲನ ಕ್ಮುಟೆಲ್ಮುಸಿ
ರಾಜಿ ಕೀಲವಿ ಒಂಟಿಜಿವಕ್ಸ್ಮುನ್ನೂ ಸ್ಪಿಮೆ ಸಹಿವಾಗಿ ಘಾರಿಲಿಮ್ಪೆ
ರಾಜ್ಯಿಟಿಲ್ಮುಟಿಶಿಲ್ಮಿ ಪ್ರಿಟ್ಮೆವಾನಿ ಒಬುಟಿನ ಮೆಲ್ಮುರ್ಮು ವ್ಯಿವಾರಿಗ್ಳ
-ನ್ಮ ಮೊರಾಡಿಶ್ಮುವಿ ಒಂಡಿ ಕೆಂಡೊಯ್ಮುಟಿರಿ.

Seminar.

Name : Munirabegum. M. Nalatwad.

Class : M.Sc (IV sem)

Reg No : P15IQ22S095011.

Collge : S.V.M. Scien Arts, Science & commerce
colluge. Ilakall.

Subject : Functional Analysis.

Submitted To : Prof. R.S. Dhanashetti.

12/09/2024

Hahn Banach Theorem.

Statement: Let 'Y' be linear subspace of N.L.S. X. Let 'f' be functional defined on Y. then f can be extended to a functional F. defined on the whole space X. Such that $\|F\| = \|f\|$.

Before we will proving Hahn Banach Theorem First we need to prove the lemma.

Lemma:- Let 'Y' be linear subspace of N.L.S of X. and 'f' be functional defined on Y. if x_0 doesn't belongs to Y. ($x_0 \notin Y$) and if the linear subspace spanned by Y and x_* then 'f' can be extended to a functional defined on Y_0 then

$$\|f_0\| = \|f\|.$$

Proof: Let X be a real Normed linear space. Since x_0 is not in Y, each vector 'ω' in Y_0 is uniquely expressed in form

$$\omega = x + \alpha x_0 \quad \text{with } x \in Y$$

we defined f_0 by the setting

i.e., $f_0(\omega) = f_0(x + \alpha x_0)$

$$= f(x) + \alpha r_0 \quad \text{——— (1)}$$

where r_0 is any real number.

Now, for every choice of the real number x_0, f_0 is linear on y_0.

Such that .

$$f_0(x) = f(x) \qquad \forall\, x \in y.$$

Let $\beta, \gamma \in \mathbb{R}$ and $x, y \in y$.

then.

$$f_0\left[\beta(x + \alpha x_0) + \gamma(y + \alpha x_0)\right]$$

$$= f_0\left(\beta x + \gamma y\right) + (\beta + \gamma)\alpha x_0)$$

$$= f\left(\beta x + \gamma y + (\beta + \gamma)\alpha x_0\right)$$

$$= \beta\, f(x) + \gamma\, f(y) + \beta \alpha x_0 + \gamma \alpha x_0$$

$$= \beta\left\{f_0(x + \alpha x_0)\right\} + \gamma\left\{f_0(y + \alpha x_0)\right\}$$

Thus f_0 extends 'f' linearly to y_0.

Next we prove that $\|f_0\| = \|f\|$

By the definition :

$$\|f_0\| = \text{Sup}\left\{|f_0(x)| \; ; \; x \in y, \; \|x\| \le 1\right\}$$

$$\geqslant \text{Sup}\left\{|f(x)| \; ; \; x \in y, \; \|x\| \le 1\right\}$$

$$\geqslant \|f\| \qquad (\because f_0 = f \text{ on } y)$$

Thus $\|f_0\| \geqslant \|f\|$ ——— I

Next, to such that $\|f_0\| \le \|f\|$.

Let x_1, x_2 are any two vectors in y. then.

$$f(x_2) - f(x_1) = f(x_2 - x_1) \le \|f(x_2 - x_1)\|$$

$$\le \|f\| \|x_2 - x_1\|$$

$$\le \|f\| \|x_2 + x_0 - x_0 - x_1\|$$

$$\le \|f\| \left(\|x_2 + x_0)\| + \| - (x_1 + x_0)\|\right)$$

$$\leq \|f\| \|x_2 + x_0\| + \|f\| \|x_1 + x_0\|$$

Thus $-f(x_1) - \|f\| \|x_1 + x_0\| \leq -f(x_2) + \|f\| \|x_2 + x_0\|$.

Since, this inequality holds for arbitrary $x_1, x_2 \in y$, we have

$$\sup_{y \in y} \{-f(y) - \|f\| \|y + x_0\|\} \leq \inf_{y \in y} \{-f(y) - \|f\| \|y + x_0\|\}$$

Choose r_0 be any real no.

$$\sup_{y \in y} \{-f(y) - \|f\| \|y + x_0\| \leq r_0 \leq \inf_{y \in y} \{-f(y) + \|f\| \|y + x_0\|\}$$

It follows that

$$\{-f(y) - \|f\| \|y + x_0\|\} \leq r_0 \leq \{-f(y) + \|f\| \|y + x_0\|\} \quad —(2)$$

This choose of r_0, we prove that,

$$\|f_0\| \leq \|f\|$$

Let $\omega = x + \alpha x_0$ be an arbitrary point x_0
putting $y = \frac{x}{\alpha}$ in (2)

$$-f\left(\frac{x}{\alpha}\right) + \|f\| \left\|\frac{x}{\alpha} + x_0\right\| \leq r_0 \leq -f\left(\frac{x}{\alpha}\right) + \|f\| \left\|\frac{x}{\alpha} + x_0\right\| \quad —(3)$$

In $\alpha > 0$, the RHS of (3) gives

$$r_0 \leq -\frac{1}{\alpha} f(x) + \frac{1}{\alpha} \|f\| \|x + \alpha x_0\|$$

$$\alpha r_0 \leq -f(x) + \|f\| \|x + \alpha x_0\|$$

$$\alpha r_0 + f(x) \leq \|f\| \|x + \alpha x_0\|$$

$$f(x + \alpha x_0) \leq \|f\| \|x + \alpha x_0\|$$

$$f_0(\omega) \leq \|f\| \|\omega\| \quad —(4)$$
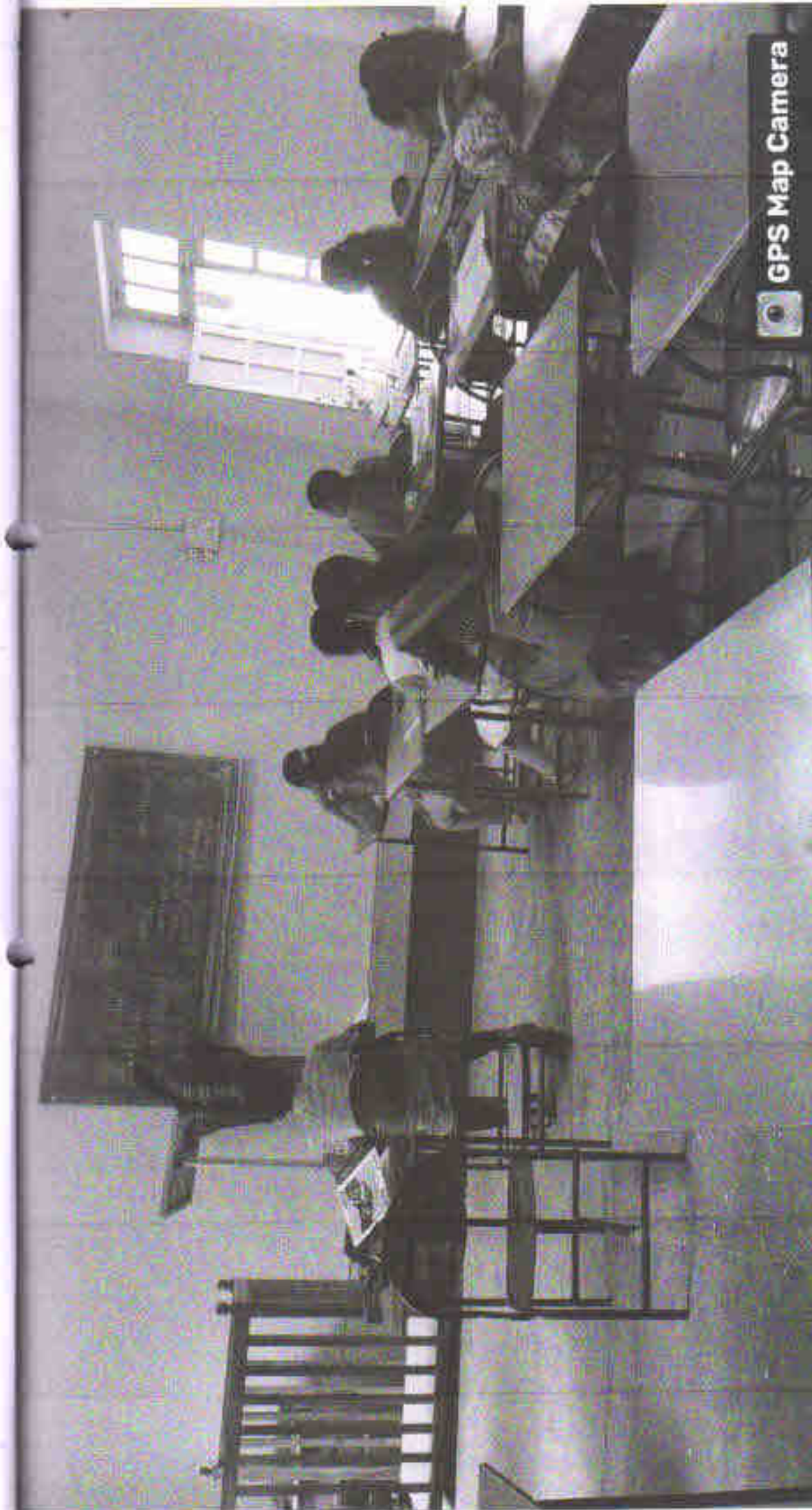
S.V.M ARTS, SCIENCE & COMMERCE COLLEGE, ILKAL

S.V.M.V.V SANGHA'S

2023-24

Dept.of Botany

SEMINAR FOR

STUDY OF THE HABITAT DISTRIBUTION HABIT ANATOMY REPRODUCTION AND LITE GNETUM

NAME : MANJUNATH J MARADDY

REG : U26YX23S0157

CLASS : B.S.C 2ND

HOD

PROF : ROHINI, S, POL

GNETUM :-

Classification :-

Kingdom → Plantae

Division → Gymnospermae

Class → Gnetopsida

order → Gnetales

family → Gnetaceae

Genus → Gnetum.

Morphotoo

Habitat :-

Gnetum is represented by about 40 species, confi -ned to the tropical and humid regions of the world. Gnetum ula is the most commonly occu -ing species of India.

Morphological Features :-

* Majority of the Gnetum species are climbers Exc -ept a few shrubs and trees. Two types of bran -ches are present on the main stem of the plant i.e branches of limited growth & branches of unlimi -ted growth.

* Each branch contains nodes and internodes. Stem of several species of Gnetum is articulated.

* In climbing species the branches of limited growth or short shoots are generally un-bra -nched and bear the foliage leaves.

* The leaves (9-10) are arranged in because decu -ssate pairs.

Life Cycle of Gnetum :-

Microsporangium → Microspore Mother cell

Megasporangium → Megaspore Mother cell

Male cone

Female cone

Sporophyte plant

Sporophytic (2n) Generation

MEIOSIS

Megaspores

Microspores

FERTILIZATION

Gametes

Germination

Egg

Seed

Embryo

Zygote
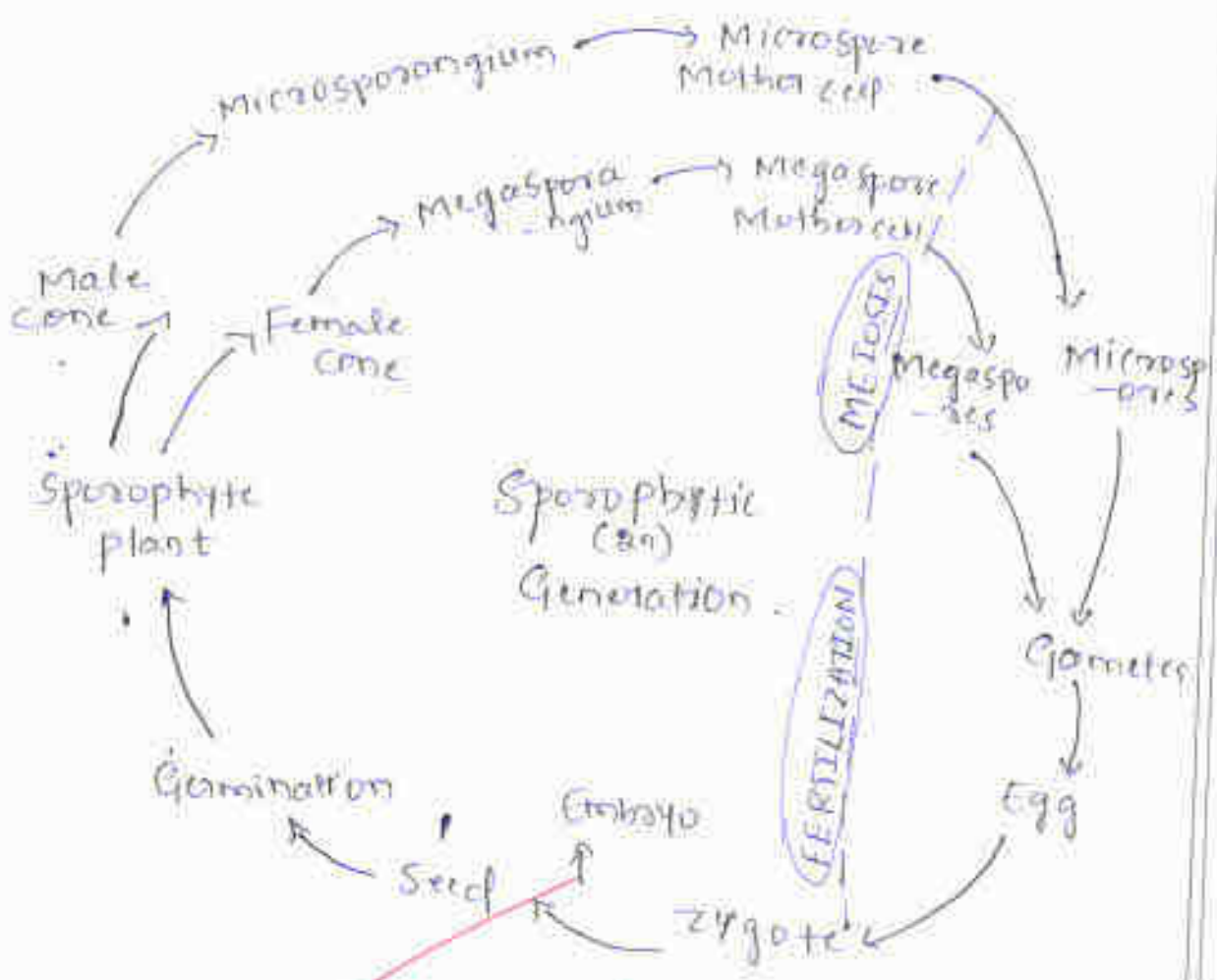
Shree Vijaya Mahantesh Arts, science, and Commerce college Ilkal   587125

Department of Botany

SEMINAR ON

"METHODS OF STERILIZATION "

UNIVERSITY NAME : BAGALKOT UNIVERITY IN JAMAKANDI

Name   -   MUSKAN

Class   -   Bsc 1St Semester

Reg,no   -   U26YX23S0021

Submitted to -   PROF.ROHINI POL

Methods of sterilization :—

Methods

* Physical Methods
* Chemical Methods.

physical Methods of sterilization

It includes killing of microbes by applying moist heat as in steaming or dry heat is in hot air oven or by filtration or radiation following are the physical methods

ii: Heat

Heat is an effect is agent of sterilization
Two types of heat are used to sterilization

a) Dry heat   b) Moist heat

a) Dry heat :— When dry heat is used, the sterilization is called dry sterilization

Dry heat is used in the following says

ಕಚೇಂಕ ಬಸ್.ವ್ಹಿ.ಎಂ.ಸಿ./ನ್ಯಾಯಕೋಂದ್ರ ವಿಭಾಗ /2024–25

ದಿನಾಂಕ: 25–09–2024

ಕ್ರ.ಸಂ	ಹೆಸರು	ರಿಜಿಸ್ಟರ್ ನಂ.	ವಿಷಯದ ತಲೆ ಬರಹ	ಮಾರ್ಗದರ್ಶಕರು
01	ಅನ್ನಪೂರ್ಣ ಕನಸಾಬ	P5IQ22A059001	ಯೋಗೀಶ ಲಮಾಣಿಯವರ ಸಾಹಿತ್ಯ ಒಂದು ಅಧ್ಯಯನ	ಡಾ. ಮುತ್ತುರಾಜ .ಬಿ ಒಂಡ
02	ಪೂಜ ಸುತಿನಾಳರ	P5IQ22A059002	ನನ್ನ ಸಾಹಿತ್ಯದ ಪ್ರಮುಖ ನಾಟಕಗಳ ವಿಮರ್ಶೆ	ಡಾ. ಮುತ್ತುರಾಜ .ಬಿ ಒಂಡ
03	ಗೀತಾ ಮೇಟಿ	P5IQ22A059003	ಡಾ.ಶ್ರೀಧರ ಗೌಡರ ಅವರ ಬದುಕು–ಬರಹ ಒಂದು ಅಧ್ಯಯನ	ಡಾ. ಮುತ್ತುರಾಜ .ಬಿ ಒಂಡ
04	ನೀಲಮ್ಮ ಬಾಳಿನವಶಿಮಠ	P5IQ22A059004	ಹನುಮಸಾಗರ ಗ್ರಾಮದ ಜನಪದ ಕಾವ್ಯಗಳ ಸಂಗ್ರಹ	ಶ್ರೀಮತಿ ಸಾವಿತ್ರಿ ಸಾಂಬೇಲ
05	ರೇಣುಕಾ ಕಶೆಮಠ	P5IQ22A059005		
06	ಮುಧಿಗೇಶ ನರಗುಂದ	P5IQ22A059006		
07	ಮೆಟ್ಟುಕಾರ್ಯನ ಜನಾದ	P5IQ22A059007		
08	ನೇತ್ರಾ ಗಜಕೋಶ	P5IQ22A059008	ಅಕ್ಕನ ಬದಾಮಿಯವರ ಕಥೆಗಳ ವಿಮರ್ಶೆ	ಡಾ. ಮುತ್ತುರಾಜ .ಬಿ ಒಂಡ
09	ಅಕ್ಷಿತಾ ಬಸ್ಮೆಟ	P5IQ22A059009	ನವ್ಯ ಸಾಹಿತ್ಯದ ಸಣ್ಣ ಕಥೆಗಳ ವಿಮರ್ಶೆ	ಡಾ. ಮುತ್ತುರಾಜ .ಬಿ ಒಂಡ
10	ರಮೇಶ ಕಂಬಾರ	P5IQ22A059010		
11	ಅಕ್ಷಿತಾ ಕುಲಕರ್ಣಿ	P5IQ22A059011	ರಾಮಾಣೇರ ಗ್ರಾಮದ ಅವಶದ ಹಾಡುಗಳು	ಡಾ. ಮುತ್ತುರಾಜ .ಬಿ ಒಂಡ
12	ಹನುಮಂತಪ್ಪ ಸುತ್ತೂರಿ	P5IQ22A059012	ಡಾ.ಪ್ರಕಾಶ ಬಾಳೆಯವರ ಸಾಹಿತ್ಯಿಕ ಅಧ್ಯಯನ	ಡಾ. ಮುತ್ತುರಾಜ .ಬಿ ಒಂಡ
13	ರಮೇಶ ಕವಲಾಪುರ	P5IQ22A059014	ಅಮರೇಶ ನುಗಡೋಣಿ ಅವರ ಕಥೆಗಳ ವಿಮರ್ಶೆ	ಶ್ರೀ ಮಹಾಂತೇಶ ಹೊದ್ಲೂರ
14	ಮಂಜುಳಾ ಹುಸ್ಗಿ	P5IQ22A059016		

SVM ARTS, SCIENCE AND COMMERCE, ILKAL
DEPARTMENT OF ENGLISH
PROJECT REPORT (2023-24)

Sl. no	Name of the student	Register No	Title of the Project	Sign	Marks
1	Ms. Sahana V. Katapurmath	U15IQ21A0053	Gender Issues in Sudha Murty's Select Short Stories	S.V.K	49
2	Ms. Geeta Tagadinmani	U15IQ21A0046	Representation of Caste, Class and Religion in Arundhati Roy's The God of Small Things		44
3	Mr. Bhimeshi	U15IQ21A0012	Representation of Caste, Class and Religion in Arundhati Roy's The God of Small Things		49
4	Mr. Sharanabasava	U15IQ21A0003	Representation of Caste, Class and Religion in Arundhati Roy's The God of Small Things		49
5	Mr. Abhishek B. Biradar	U15IQ21A0010	Corruption and Caste Struggle in Aravind Adiga's The White Tiger		45
6	Mr. Maibubsaab Mulla	U15IQ21A0034	Corruption and Caste Struggle in Aravind Adiga's The White Tiger		49
7	Mr. Anand Hiregoudar	U15IQ21A0011	Corruption and Caste Struggle in Aravind Adiga's The White Tiger		23
8	Mr. Rudragoud Patil	U15IQ21A0008	Corruption and Caste Struggle in Aravind Adiga's The White Tiger	R.N. Patil	23
9	Mr. Siddu Davanagere	U15IQ21A0009	Corruption and Caste Struggle in Aravind Adiga's The White Tiger		23

(Dr. S.B. Biradar)

SVMVVS's

S. V.M. ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL

Dept of English
2023-24

PROJECT WORK ON

Sub: Interview with a local Entrepreneur

SUBMITTED BY

VARSHA PATTANASHETTI
U15IQ22C0023
B.COM IV Sem

PALLAVI KANAKERI
U15IQ22C0019
B.COM IV Sem

SANGEETA HULIKATTI
U15IQ22C0069
B.COM IV Sem

SANGEETA MADIWALAR
U15IQ22C0041
B.COM IV Sem

JYOTI KANDAGAL
U15IQ22C0040
B.COM IV Sem

YOGITA CHILLAL
U15IQ22C0030
B.COM IV Sem

SUBMITTED TO
DR. S. B. BIRADAR
HOD, Department of English

RANI CHANNAMMA UNIVERSITY, BELAGAVI

S.V.M.V.V. Society's

SVM ARTS, SCIENCE & COMMERCE COLLEGE, ILKAL-587125
Accredited at the 'A' level by NAAC
(Affiliated to RCU Belagavi)

Department of English

A Project Report On

GENDER ISSUES IN SUDHA MURTY'S
SELECT SHORT STORIES

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ARTS
During the year 2023-24

Submitted by

SAHANA .V. KATAPURMATH
REG NO: U15IQ21A0053

Under the Guidance of
DR. S. B. BIRADAR
PROFESSOR & HEAD
DEPARTMENT OF ENGLISH
SVM Arts, Science and Commerce College, Ilkal - 587 125,
Karnataka, India

CERTIFICATE

This is to certify that Ms. Sahana .V. Katapurmath U15IQ21A0053, BA VI Semister student of Departement of English, completed her Project Report entitled "Gender Issues in Sudha Murty's Select Short Stories" under my supervision and the Project report has not formed earlier the basis for the award of any degree or similar title of this or any other university or examining body.

Place: Ilkal

Date: 12-08-2024

Dr. S. B. Biradar

Project Guide

SVM ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL

Post Graduate Studies in Mathematics

M.Sc IV Semester 2023-24

Allocation of Students to Guide for Project

S.No	Register Number	Students Name	Guide
1	P15IQ22S095001	MAIMUNAIFRA BILEKUDARI	R. S DHANASHETTI
2	P15IQ22S095008	HUDAPARVEEN MOMIN	
3	P15IQ22S095015	RASHMI B KURI	
4	P15IQ22S095020	SOUMYASHREE GOUDAR	
5	P15IQ22S095007	MEGHA KARADI	R. S DHANASHETTI
6	P15IQ22S095016	SOUMYA DANDAVATI	
7	P15IQ22S095018	KAVERI MADIVALAR	
8	P15IQ22S095006	MARUTI NEMADI	
9	P15IQ22S095003	SACHIN KUPASATA	S. S MERAKHOR
10	P15IQ22S095011	MUNIRABEGUM NALTWAD	
11	P15IQ22S095012	R SANGEETA	
12	P15IQ22S095013	AKSHATA S KARADI	
13	P15IQ22S095002	BHARAT BOBALEKAR	M. B ITAGI
14	P15IQ22S095017	SPOORTI BADIGER	
15	P15IQ22S095004	ANANDA BYALAL	
16	P15IQ22S095005	SHIVARANJINI SANGA	

Head of the Mathematics Department
SVM Arts & Science College
ILKAL

SVM ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL
Post Graduate Studies in Mathematics

Project List 2023-24

S.No	Register Number	Students Name	Project Title
1	P15IQ22S095001	MAIMUNAIFRA BILEKUDARI	Category Theory
2	P15IQ22S095008	HUDAPARVEEN MOMIN	
3	P15IQ22S095015	RASHMI B KURI	
4	P15IQ22S095020	SOUMYASHREE GOUDAR	
5	P15IQ22S095007	MEGHA KARADI	Orthogonality and least squares
6	P15IQ22S095016	SOUMYA DANDAVATI	
7	P15IQ22S095018	KAVERI MADIVALAR	
8	P15IQ22S095006	MARUTI NEMADI	
9	P15IQ22S095003	SACHIN KUPASATA	Graph coloring and its applications
10	P15IQ22S095011	MUNIRABEGUM NALTWAD	
11	P15IQ22S095012	R SANGEETA	
12	P15IQ22S095013	AKSHATA S KARADI	
13	P15IQ22S095002	BHARAT BOBALEKAR	Coding theory
14	P15IQ22S095017	SPOORTI BADIGER	
15	P15IQ22S095004	ANANDA BYALAL	
16	P15IQ22S095005	SHIVARANJINI SANGA	

HOD
PG Dept. of Mathematics
SVM Arts, Science & Commerce College, ILKAL

Principal
S.V.M. Arts, Science and
Commerce College, ILKAL
College Code: 637?

SVM ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL-587125.
DEPARTMENT OF COMPUTER SCIENCE

2023-24

LIST OF STUDENTS FOR PROJECT WORK

Group - A (Project Title: "Library Management System")

Sl.No	Register Num	Name of the Student	Student sign	Name of the Guide with sign
01	U15IQ2150007	Vaishnavi V Kulkarni	Vaishnavi	S. B. Sunkad
02	U15IQ2150014	Arpita A Angadi	ABAngadi	
03	U15IQ2150051	Raju Chandragiri	Rajll	
04	U15IQ2150085	Varun R Raibagi		
05	U15IQ2150139	Vishalakshi S Bandi		
06	U15IQ2150043	Chandrashekhar H Hugar	——	

Group - B (Project Title: "Employee Leave Management System")

Sl.No	Register Num	Name of the Student	Student sign	Name of the Guide with sign
01	U15IQ2150036	Sushma S Rampur	S. Rampur	Shankar P. Eptur
02	U15IQ2150041	Siddarth Bilagi	SRBi	
03	U15IQ2150049	Shridhar Gangadharamath		
04	U15IQ2150112	Murugendra Kembavimath	Murugendra	
05	U15IQ2150113	Srusthi M Gooli	smg	

Head of the Department
Department of Computer Science
S. V. M. Arts, Science & Commerce
College, ILKAL-587125

PRINCIPAL
S.V.M. Arts, Science and
Commerce College, ILKAL

S.V.M.V.V.SANGHA'S

S.VM ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL -587125

S.V.M.V.V. Sangha's

UG DEPARTMENT OF COMPUTER SCIENCE

A PROJECT REPORT ON

"A STUDY ON LIBRARY MANAGEMENT SYSTEM "

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

During the academic year 2023-2024

SUBMITTED BY

Mr. Raju. Chandragiri	Reg.No : U15IQ21S00 51
Mr. Varun. Raibagi	Reg.No : U15IQ21S0085
Miss. Arpita. Angadi	Reg.No : U15IQ21S0014
Miss. Vaishanavi. Kulkarni	Reg.No : U15IQ21S0007
Miss. Vishalakshi. Bandi	Reg.No : U15IQ21S0139
Mr. Chandrashekar Hugar	Reg.No : U15IQ21S0043

UNDER THE GUIDANCE OF

Miss. Shreedevi golur

Mr. shankargouda. Sunkad

UG DEPARTMENT OF COMPUTER SCIENCE

S.V.M.V.V.SANGHA'S

S.V.M ARTS, SCIENCE AND COMMERCE COLLEGE, ILKAL -587125

Estd 1964

Accredited at 'A' Grade by NAAC

UG DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

THIS IS TO CERTIFY THAT

Mr. Raju. Chandragiri	Reg.No : U15IQ21S00 51
Mr. Varun. Raibagi	Reg.No : U15IQ21S0065
Miss. Arpita. Angadi	Reg.No : U15IQ21S0014
Miss. Vaishanavi. Kulkarni	Reg.No : U15IQ21S0007
Miss. Vishalakshi. Bandi	Reg.No : U15IQ21S0139
Mr. Chandrashekar Hugar	Reg.No : U15IQ21S0043

Have Satisfactorily Completed the Project on "A STUDY ON LIBRARY MANAGEMENT SYSTEM " in the partial fulfillment for the requirement of Bachelor of Science in Computer Science award by Rani Channamma University, Belagavi during the academic year 2023-2024

Miss. Shreedevi. Gotur

Project Guide

Dr.S.S.Awati

PRINCIPAL
Principal
S.V.M Arts, Science and
Commerce College, ILKAL

Examiner

14/3/2024

A Project Report On

"LIBRARY MANAGEMENTSYSTEM"

Submitted in Partial Fulfillment of

BACHELOR OF SCIENCE

By

1. Vaishnavi Kulkarni   U15IQ21S0007

2. Arpita Angadi   U15IQ21S0014

3. Raju Chandragiri   U15IQ21S0051

4. Varun Raibagi   U15IQ21S0085

5. Vishalakshi Bandi   U15IQ21S0139

6. Chandrashekar Hugar   U15IQ21S0043

Under the guidance of

Mr. Shankargouda Sunkad

DEPARTMENT OF COMPUTER SCIENCE

(Session: 2021-24)

INTERNAL GUIDE'S CERTIFICATE

This is to certify that the project entitled "LIBRARY MANAGEMENT SYSTEM" is an group work of Ms. VAISHNAVI KULKARNI, Ms. ARPITA ANGADI, Mr. RAJU CHANDRAGIRI, Mr. VARUN RAIBAGI, Ms. VISHALA BANDI & Mr. Chandrashekar Hugar Rani Channamma University Examination Reg. No: U15IQ21S0007, U15IQ21S0014, U15IQ21S0051, U15IQ21S0085, U15IQ2150139, U15IQ21S0043 of final year B.Sc, SVMVV SANGHA'S S. V. M ARTS, SCIENCE & COMMERCE COLLEGE, ILKAL, now is being submitted in the partial fulfillment requirement for the award of the degree of Bachelor of Science.

I further certify that the work is original and students have made all best efforts to bring the work in this format.

14|8|24

Prof. Shankargouda B S

Place: Ilkal

Date:

S V M Arts, Science & Commerce College, Ilkal.

ABSTRACT

Library Management System is a system which maintains the information about the books present in the library, their authors, the members of library to whom books are issued, library staff and all. This is very difficult to organize manually. Maintenance of all this information manually is a very complex task. Owing to the advancement of technology, organization of an Online Library becomes much simple. The Library Management has been designed to computerize and automate the operations performed over the information about the members; book issues and returns and all other operations. This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced.

ACKNOWLEDGEMENT

I would like to express our sincere gratitude to several individuals and organization for supporting me throughout the completion of my project.

First, I wish to express my sincere gratitude to ours mentor (Mr. Shankargouda Sunkad) for his enthusiasm, patience, insightful comments, helpful information, practical advices and unceasing ideas that have helped us tremendously at all times in ours Project and writing of these thesis. His immense knowledge, profound experience and professional expertise in backend have enabled us to complete this project successfully. Without his support and guidance, this project would not have been possible.

I am also thankful to our respected HOD Ms. Shreedevi Gotur and all faculty membersfor loving inspiration and timely guidance. I also wish to express my sincere thanks to the Department of Computer science of RANI CHANNAMMA UNIVERSITY for accepting this project.

Thanks for all your encouragement!

DECLARATION

We are hereby declare that the Project entitled "LIBRARY MANAGEMENT SYSTEM" done at S. V. M Arts, Science & Commerce College, Ilkal has not been in any case duplicated to submit to any other University for the award of any degree. To the best of our knowledge other than us, no one has submitted to any other university. This project is done in partial fulfillment of the requirement for the award of degree of BACHELOR OF SCIENCE to be submitted as final semester project as part of our curriculum.

1. Vaishnavi Kulkarni   U15IQ21S0007
2. Arpita Angadi   U15IQ21S0014
3. Raju Chandragiri   U15IQ21S0051
4. Varun Raibagi   U15IQ21S0085
5. Vishalakshi Bandi   U15IQ21S0139
6. Chandrashekar Hugar   U15IQ21S0043

Office No: 9731240260
Phone No: 9902683548

Post Box No : 3

Shri VijayMahantesh Vidyavardhak Sangha's
Shri VijayMahantesh Arts, Science & Commerce
College, ILKAL – 587125.

Dt: Bagalkot

Karnataka: State

Dr. S.S.Awati
M.A., M.Phil Ph.D
Principal
E.Mail: svmdegreecollege@gmail.com

Accredited at 'A' Grade by NAAC
(Affiliated to Bagalkot University Jamakhandi Centre Code: 6218)

Web: www.svmdegreecollege.edu.in

CAREER AND COUNSELING CELL

Program Coducted during the year 2023-24

SLNo	Date	Program	Resource Person	No. of Students Benefited
01	10-07-2024	Career Oppartunities after Degree	Shri. Devendra Naganur Pragati Poshak , Graduate Finishung School Hubli	58
02	05-08-2024	Career Guidance and Job Opprtunies	Shri. Umesh Pujar Deshapande Foundation , Hubli	40
			Total No students benefited	98

PRINCIPAL
S.V.M. Arts, Science and
Commerce College, ILKAL
College Code: 6218

IQAC Initiative

Career & Counselling Cell and Placement Cell in Association with Pragati Poshaka, Hubballi

---

Organizes

Orientation Program on

"Career Opprtunities after Degree"

for

B.Sc./BA/B.Com Final Year Students

10-07-2024

At 11.10 AM   Venue: L.H.No: 12

Resource Person:

Mr.Devendra Naganur
Pragati Poshak Graduate Finishing School
Hubballi

REPORT

S.V.M ARTS, SCIENCE AND COMMERCE COLLEGE
ILKAL-587 125

IQAC Initiative

Career & Counselling Cell and Placement Cell in Association with Pragati Poshaka, Hubballi
---

Students Attendance Report

Topic   : "Career Opprtunities after Degree"

Resource Person: **Mr. Devendra Naganur**

Pragati Poshak Graduatae Finishing School, Hubballi

Date   : 10-07-2024

Attendence Report

Sl.No	Name of the Student	Class	Sign
1	Mahalaxmi. P. Saraganachari	B.Sc VI	M.P.S
2	Vidyashree. M. patil	B.Sc III sem	V. M. P
3	Gayatri. R. C	B.Sc VI	G.R
4	Aasiya. Kenur	BSV	Aasiya
5	Tasleem Bhavikatti	Bsc VI	
6	Shreya. V. Nandargi	Bsc VI	Sheya N
7	Sahana V-Katapurmath	BA VI	S.V.K
8	Geeta. A. Tagadinamani	BA-VI Sem	Geeta
9	Riyana. Begum Dali	B.Sc VI sem	Reank
10	Akshata.	B.Sc VI Sem	Akshata
11	Anupriya. Matur	B.S VI sen	Amas
12	Chaitra.	B.Sc VI Sem	Chaitra
13	Anitta. Y. B	BSC II	Anitto
14	Poomima N.	"	PRN
15	Malleka. P	Bsc II	MHP
16	Sushma. M. Dhanashetti	B.Com VI	Shom
17	Truti. K. Masagi	B.com VI	Truti
18	Pradnya. M. Gadduth	B.Com VI	

Career and Counesling Cell and Placement Cell in Association
with Pragati Poshak, Hubballi

STUDENT'S FEEDBACK

1. Name of the Resource Person: Mr.Devendra Naganur
                                  Pragati Poshak, Hubballi

2. Topic   : "Career Oppurtunities after
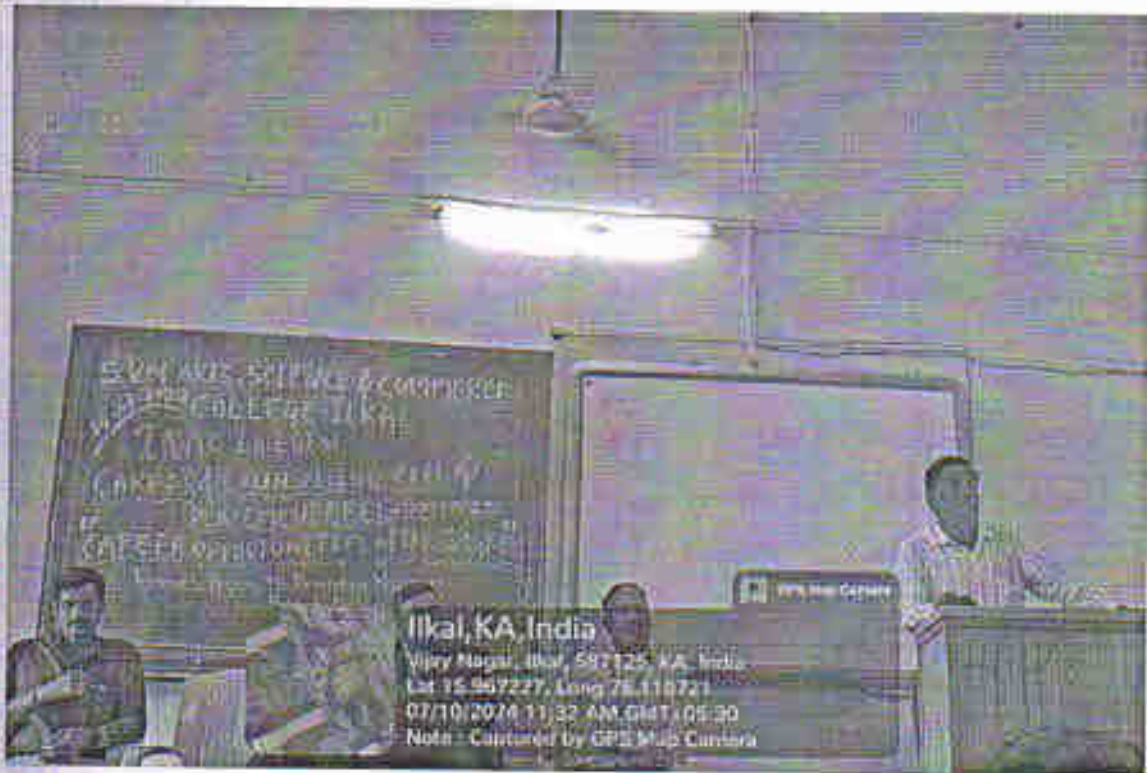   Degree"

3. Date   : 10-07-2024

4. Quality of Information   : Average [ ]   Good [✓]

                                    Excellent [ ]

5. Overall Rating   : Average [ ]   Good [ ]

                                    Excellent [✓]

6. Opinion about the program :

* The communication is very excellent.
* It's very helpful for us.
* Good over all information
  about Pragati Poshak.

Name, Class & Signature
Vaishnavi. V. Bulbami.
Bsc 6th sem.

Ilkal, KA, India
Vijay Nagar, Ilkal, 587125, KA, India
Lat 15.967193, Long 76.110739
07/10/2024 11:41 AM GMT+05:30
Note : Captured by GPS Map Camera

Ilkal, KA, India
Vijay Nagar, Ilkal, 587125, KA, India
Lat 15.967227, Long 76.110721
07/10/2024 11:32 AM GMT+05:30
Note : Captured by GPS Map Camera

SVMVV Society's

SVM ARTS, SCIENCE AND COMMERCE COLLEGE
ILKAL -587125
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REPORT
PRAGATI POSHAK RECRUITMENT
10TH JULY 2024

Placement Cell

DR. S. B. BIRADAR
PLACEMENT OFFICER

SVMVVS'S
S.V.M ARTS, SCIENCE AND COMMERCE COLLEGE
ILKAL-587 125

IQAC Initiative

Career & Counselling Cell and Placement Cell in Association with Pragati Poshaka, Hubballi

Organizes

Orientation Program on

"Career Opprtunities after Degree"

for

B.Sc./BA/B.Com Final Year Students

10-07-2024

At 11.10 AM   Venue: L.H.No: 12

Resource Person:

Mr.Devendra Naganur
Pragati Poshak Graduate Finishing School
Hubballi

REPORT

S.V.M ARTS, SCIENCE AND COMMERCE COLLEGE
ILKAL-587 125

IQAC Initiative

Career & Counselling Cell and Placement Cell in Association with Pragati Poshaka, Hubballi

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Students Attendance Report

Topic : "Career Opprtunities after Degree"

Resource Person: **Mr. Devendra Naganur**

Pragati Poshak Graduatae Finishing School, Hubballi

Date : 10-07-2024

Attendence Report

Sl.No	Name of the Student	Class	Sign
1	Mahalaxmi, C. Saraganachari	B.sc VI	M.C.S
2	Vidyashree, D. Patil	B.Sc III sem	V. D. P
3	Galyatri. R. C	Bsc VI	G.R.C
4	Aasiya. Kenur	BSVI	Aasiya
5	Tasleem Bhavikatti	Bsc VI	Pragat.
6	Shreya. V. Nandargi	Bsc VI	Shreya N
7	Sahana V. Katapurmath	BA VI	S.V R
8	Geeta. A. Tagadinamani	BA-VI sem	Geeta
9	Riyana. Begam onli	B.Sc IIsem	Rhani.
10	Akshata.	Bsc VI Sem	Akshata
11	Anupriya Mattur	BSVI sem	Anoop
12	Chaitra	B.sc VI sem	Chaitra
13	Sneha Y. B	Bsc II	Sneha
14	Poornema N	"	PRN
15	Mallika P	Bsc II	MHP
16	Sushma. M. Dhanashetti	BCom VI	Shma
17	Preeti. K. Masagi	B.Com VI	Preeti
18	Pradnya. M. Gaddadi	B.Com VI	P.M.G

Sl.No.	Name of the Student	Class	Sign
52	Mohamad mustaf D.K	BIV com	
53	Yuresh M H	BSY bin	
54	Mangunath Y, Badauadg	BA IV com	
55	Praneen.m. Godag?	BA IV com	
56	Sidalulingayya l. H	BA II	
57	Vasudev Rathod	BA II	
58	Kalinga Alen	BA II	
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Career and Counesling Cell and Placement Cell in Association with Pragati Poshak, Hubballi

STUDENT'S FEEDBACK

1. Name of the Resource Person: Mr.Devendra Naganur
Pragati Poshak, Hubballi

2. Topic : "Career Oppurtunities after Degree"

3. Date : 10-07-2024

4. Quality of Information : Average ☐   Good ✓

Excellent ☐

5. Overall Rating : Average ☐   Good ☐

Excellent ✓

6. Opinion about the program :

* The communication is very excellent.
* It's very helpful for us.
* Good over all information about Pragati Poshak.

Name, Class & Signature
Valshnavi. V. Kulkarni.
Bsc 6th sem.

Ilkal, KA, India
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S V M ARTS, SCIENCE AND COMMERCE COLLEGE ILKAL-587125

DEPATMENT OF PHYSICS

PAPER-I: Classical Mechanics and Quantum Mechanics- I

UNIT I

Introduction to Newtonian Mechanics: Frames of references, Newton's laws of motion, inertial and non-inertial frames. Mechanics of a particle, Conservation of linear momentum, Angular momentum and torque, conservation of angular momentum, work done by a force, conservative force and conservative energy. Lagrangian formulation: Constraints, Holonomic constraints, non-holonomic constraints, Scleronomic and Rheonomic constraints. Generalized coordinates, degrees of freedom, Principle of virtual work, D'Alembert's principle, Lagrange equations. Newton's equation of motion from Lagrange equations, simple pendulum, Atwood's machine and linear harmonic oscillator.

TWO MARK QUESTIONS

1. What is frame of reference?
2. What is inertial frame of reference?
3. What is non-inertial frame of reference?
4. State Newton's first law of motion
5. State Newton's second law of motion
6. State Newton's third law of motion
7. State the law of conservation of linear momentum
8. State the law of conservation of angular momentum
9. State the law of conservation of energy
10. Define torque
11. Define conservative force
12. Define work done by force
13. What are the holonomic constraints?
14. What are the non-holonomic constraints?
15. What are the scleronomic constraints?
16. What are the rheonomic constraints?
17. What is degree of freedom?
18. State the principle of virtual work
19. State D'Alembert' principle

FOUR MARK QUESTONS

1. State and prove the law of conservation of linear momentum
2. State and prove the law of conservation of angular momentum
3. State and prove the law of conservation of energy
4. Write a note on constraints
5. Explain the generalized coordinates
6. Explain the generalized displacement and velocity
7. Explain the generalized force
8. Explain the generalized potential energy
9. Derive Newtons equation of motion from Lagrange's equation
10. Derive equation of motion of simple pendulum from Lagrange's equation
11. Derive the equation motion for linear harmonic oscillator from Lagrange's equation
12. Derive the equation of motion for Atwood machine using Lagrange's equation

EIGHT MARK QUESTIONS

1. Explain the generalized coordinates displacement and velocity
2. Derive Lagrange's equation from D' Alembert's principle.

UNIT II

Relativity: Newtonian principle of relativity. Non-Inertial Systems: Non-inertial frames and fictitious forces. Uniformly rotating frame. Special Theory of Relativity: Michelson-Morley Experiment and its outcome. Postulates of Special Theory of Relativity. Lorentz Transformations. Simultaneity and order of events. Lorentz contraction. Time dilation. Relativistic transformation of velocity, frequency and wave number. Relativistic addition of velocities. Variation of mass with velocity. Massless Particles. Mass energy Equivalence. Relativistic Doppler effect. Relativistic Kinematics. Transformation of Energy and Momentum.

TWO MARK QUESTIONS

1. What is fictitious force
2. What is the outcome of Michelson's experiments?
3. State the postulates of special the theory of relativity
4. What is length contraction?
5. What is time dilation
6. State the relativistic transformation of velocity
7. State the relativistic transformation of frequency
8. State the relativistic transformation of wave number
9. Write the mass energy relation and explain the notations
10. Write the expression for the variation of mass with velocity

FOUR MARK QUESTIONS

1. Explain Newtonian principle of velocity
2. State and explain uniformly rotating body
3. Derive an expression for the length contraction
4. Derive an expression for the time dilation
5. Derive relativistic addition of velocities
6. Derive Einstein mass energy relation
7. Write a note on relativistic Doppler effect
8. Write a note on transformation of energy and momentum

EIGHT MARK QUESTIONS

1. Describe Michelson –Morley experiment
2. Derive Lorentz transformation equations
3. Derive variation of mass with velocity

UNIT III

Introduction to Quantum Mechanics: Brief discussion on failure of classical physics to explain black body radiation, Photoelectric effect, Compton effect, stability of atoms and spectra of atoms. Compton scattering: Expression for Compton shift (With derivation). Matter waves: de Broglie hypothesis of matter waves, Electron microscope, Wave description of particles by wave packets, Group and Phase velocities and relation between them, Experimental evidence for matter waves: Davisson- Germer experiment, G.P Thomson's experiment and its significance. Heisenberg uncertainty principle: Elementary proof of Heisenberg's relation between momentum and position, energy and time, Illustration of uncertainty principle by Gamma ray microscope thought experiment. Consequences of the uncertainty relations: Diffraction of electrons at a single slit, why electron cannot exist in nucleus? Two-slit experiment with photons and electrons. Linear superposition principle as a consequence.

TWO MARK QUESTIONS

1. What is photoelectric effect?
2. What is Compton effect?
3. Write the expression for Compton shift
4. What are the matter waves?
5. Give the expression for de-Broglie wavelength in terms of momentum and energy
6. Give the relation between group velocity and phase velocity
7. What is uncertainty principle
8. Give the expression for uncertainties in a) momentum and position b) Energy and time

FOUR MARK QUESTIONS

1. Explain the failure of classical physics to explain black body radiation
2. Derive an expression for de-Broglie wavelength in terms of momentum and energy
3. Write a note on electron microscope
4. Derive the relation between the group velocity and phase velocities
5. Describe the evidence of matter waves by Davisson –Germer experiments
6. Describe the evidence of matter waves by G P Thomson experiments
7. State and explain Heisenberg uncertainty principle
8. Explain illustration of uncertainty principle by Gamma ray microscope
9. Explain illustration of uncertainty principle in case of diffraction at a single slit

EIGHT MARK QUESTIONS

1. What is Compton effect? Derive an expression for Compton shift
2. Describe the experimental evidence of matter waves by Davisson –Germer experiments
3. Describe the experimental evidence of matter waves by J P Thomson experiments and its significance.
4. State and explain Heisenberg uncertainty principle and derive the relation for a) momentum and position b) Energy and time.

> **UNIT IV**
> **Foundation of Quantum Mechanics:** Probabilistic interpretation of the wave function - normalization and orthogonality of wave functions, Admissibility conditions on a wave function, Schrödinger equation: equation of motion of matter waves - Schrodinger wave equation for a free particle in one and three dimension, time-dependent and time-independent wave equations, Probability current density, equation of continuity and its physical significance, Postulates of Quantum mechanics: States as normalized wavefunctions. Applications of Schrodinger's equation – for free particle, particle in one dimensional box derivation of Eigen values and Eigen function for infinite and finite potential well. Tunnelling. Transmission across a potential barrier, the tunnelling effect. Scanning tunnelling microscope (STM). Development of Schrodinger's equation for One dimensional Linear harmonic oscillator. Concept of zero - point energy.

TWO MARK QUESTIONS

1. State the condition for normalization and orthogonality of wave function
2. State the probability current density
3. Give the equation of continuity
4. Write the Schrodinger time dependent wave equation
5. What are the eigen values and eigen functions
6. What is Tunnelling
7. What is Tunnelling effect
8. What is zero-point energy
9. What is STM

FOUR MARK QUESTIONS

1. State admissibility condition on a wave function
2. Derive Schrodinger wave equation for free particle
3. Derive Schrodinger time dependent wave equation
4. Derive Schrodinger time independent wave equation
5. Explain the equation of continuity and its physical significance
6. State the postulates of quantum mechanics
7. Give the construction and working of scanning Tunnelling microscope

EIGHT MARK QUESTIONS

1. Derive Schrodinger time dependent and independent wave equation
2. Derive Schrodinger wave equation for a particle in one dimensional box
3. Derive Eigen values and Eigen functions for infinite potential well

4. Derive Eigen values and Eigen functions for finite potential well

5. Derive Schrodinger wave equation for one dimensional linear harmonic oscillator. Explain the concept of zero-point energy

Paper-II: Elements of Atomic, Molecular & Laser Physics (Theory)

UNIT I

Basic Atomic models

Thomson's atomic model; Rutherford atomic model – Model, Theory of alpha particle scattering, Rutherford scattering formula; Bohr atomic model – postulates, Derivation of expression for radius, total energy of electron; Origin of the spectral lines; Spectral series of hydrogen atom; Effect of nuclear motion on atomic spectra - derivation; Ritz combination principle; Correspondence principle; Critical potentials – critical potential, excitation potential and ionisation potential; Atomic excitation and its types, Franck-Hertz experiment; Sommerfeld's atomic model – model, Derivation of condition for allowed elliptical orbits.

Basic Atomic models

2 Marks Questions

1) What is Thomson's atom model?
2) What are merits and demerits of Thomson's atom model.
3) Write any two major limitation of Thomson atomic model.
4) What is Rutherford's atom model?
5) What are merits and demerits of Rutherford's atom model.
6) What is critical potential?
7) What is excitation potential?
8) What is ionisation potential?
9) Mention main ways of exiting an atom.

4 Marks Questions

1) Explain Bohr postulates of hydrogen atom.
2) Derive an expression for radius of electron.
3) Derive an expression for total energy of electron.
4) Explain the Spectra series of the hydrogen atom.
5) Derive an expression for Ritz-Rydberg combination principle.
6) State and explain Correspondence principle.
7) Explain Sommerfeld's relativistic theory.

8 Marks Questions

1) Explain the theory of alpha particle scattering.
2) Derive an expression for Rutherford scattering formula.
3) Discuss Effect of nuclear motion on atomic spectra.
4) Describe Frank-Hartz experiment for determining the critical potentials.
5) Derive an expression of condition for allowed elliptical orbits.

UNIT II- Vector atomic model and optical spectra

Vector atom model – model fundamentals, spatial quantization, spinning electron; Quantum numbers associated with vector atomic model; Optical spectra – spectral terms, spectral notations, selection rules. Spin-orbit coupling/Spin-Orbit Interaction (qualitative). Coupling schemes – L-S and j-j schemes; Pauli's exclusion principle; Magnetic dipole moment due to orbital motion of electron – derivation; Magnetic dipole moment due to spin motion of electron; Stern-Gerlach experiment – Experimental arrangement and Principle; Fine structure of spectral lines with examples.

Zeeman effect: Experimental study, Types: normal and anomalous Zeeman effect, Quantum theory of normal Zeeman effect. Energy level diagram for Sodium-D lines. Paschen back effect

2 Marks Questions

1) Who proposed the first atomic model?
2) What is the size of an atom?
3) Which is the first nuclear model?
4) What is the space quantization?
5) What is electron spin?
6) What is the magnitude of the orbital angular momentum?
7) What is the magnitude of the spin angular momentum?
8) What is orbital quantum number?
9) What is spin quantum number?
10) What is total angular quantum number?
11) What is magnetic orbital quantum number?
12) What is magnetic spin quantum number?
13) What is LS coupling?
14) What is jj coupling?
15) State Pouli Exclusive Principle.

4 Marks Questions

1) Explain the terms a) Space quantization b) Electron spin.
2) Write a note on quantum number associated with vector model of the atom.
3) Obtain an expression for the magnetic movement due to orbital motion.
4) Obtain an expression for the magnetic movement due to spin motion.

8 Marks Questions

1) Describe with theory of Stern-Gerlach's experiment.

2) Mention the salient features of vector model of atom. Explain the different quantum numbers associated with it.

3) State and explain Pauli Exclusion Principle.

4) Explain Electron Configuration of a Single valency electron and Two valency electron.

Zeeman effect

2 Marks Questions

1) What is Zeeman effect?

2) Mention the types of Zeeman effect.

3) What is Normal Zeeman effect?

4) What is Anomalous Zeeman effect?

5) What is Larmor precession?

6) What is Paschen back effect?

7) What is Stark effect?

8) Distinguish between normal Zeeman effect and anomalous Zeeman effect

9) What is Lande g factor?

4 Marks Questions

1) What is Larmour's precession? Mention the expression for Larmour frequency?

2) Outline the theory of normal Zeeman Effect.

3) Outline the theory of anomalous Zeeman Effect.

8 Marks Questions

1) Describe the experimental setup to observe the Zeeman Effect. Hence derive an expression for Zeeman Shift.

2) Give the quantum theory of normal Zeeman effect.

3) Explain Larmor's precession. Derive an expression for magnetic moment due to orbital motion of electron.

4) Explain the energy level diagram of Sodium D- line.

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UNIT III- Molecular Physics & Laser

Molecular Physics

Types of molecules based on their moment of inertia; Types of molecular motions: Rotational and Vibrational motions and energies. Microwave Spectra: Theory of rigid rotator – energy levels and spectrum. Infra-Red Spectra: Theory of vibrating molecule as a simple harmonic oscillator – energy levels and spectrum.

Raman effect – Stoke's and anti-Stoke's lines, characteristics of Raman spectra, classical and quantum theory of Raman effect. Experimental set up of Raman Effect. Applications of Raman effect.

Laser Physics

Interaction of radiation with matter: Induced absorption, spontaneous emission and stimulated emission. Einstein's A and B coefficients – Derivation of relation between Einstein's coefficients and radiation energy density; Condition for amplification of light; Population inversion; Methods of pumping; Requisites of laser – energy source, active medium and laser cavity; Three level energy diagram. Construction and Working principle of Ruby Laser. Characteristics of laser light

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Molecular Physics

2 Marks Questions

1) What is band spectra?
2) Mention the types of molecular spectra.
3) What is electronic spectra?
4) What is vibrational-rotational spectra?
5) What is pure rotational spectra?
6) What is Zero-point energy?

4 Marks Questions

1) Distinguish between line spectra and band spectra
2) Find the expression for reduced mass of rigid diatomic molecule.
3) Explain the of molecular spectra.
4) Explain the types of molecular motion.
5) Explain the types of molecular energies.

6) Explain the of Selection rule governing a pure rotational spectra of diatomic molecule as rigid rotator.

7) Explain the of Selection rule governing a pure rotational spectra of diatomic molecule as non-rigid rotator.

8) Explain the of Selection rule governing a vibrational-rotational spectra of diatomic molecule as a simple hormonic oscillator.

8 Marks Questions

1) Obtain an expression for the rotational energy of a diatomic molecule assuming it to be a rigid rotator.

2) Derive an expression for the energy of diatomic molecule as a non-rigid rotator.

3) Derive an expression for the vibrational spectra of diatomic molecule as a simple hormonic oscillator.

Raman effect

2 Marks Questions

1) What is Raman Effect?
2) What is Stoke's line?
3) What is antistoke's line?
4) What are Raman lines?
5) What is coherent scattering?
6) What is incoherent scattering?
7) Mention two characters of Raman lines.
8) Mention any two applications Raman Effect.
9) Is scattered light polarized?
10) State and explain Rayleigh law of scattering.
11) What is Raman shift?

4 Marks Questions

1) Distinguish between Coherent scattering and Incoherent scattering.

2) Distinguish between Stokes line and Antistoke's line.

3) Mention the application of Raman Effect.

4) What is Raman Effect? Describe Raman Spectra.

5) Discuss the Quantum theory of Raman Effect.

6) Explain the Raman experimental setup and observations.

7) Give the classical theory of Raman Effect.

8) Write the characteristic properties of Raman lines.

8 Marks Questions

1) What is Raman Effect? With a neat diagram explain the experimental setup of Raman Effect. Mention the two application of Raman Effect.

2) Give the classical theory of Raman Effect and Write the characteristic properties of Raman lines

3) (a) Distinguish between Coherent scattering and Incoherent scattering.

   (b) Mention the application of Raman Effect.

4) (a) Write the characteristic properties of Raman lines

   (b) Distinguish between Stokes line and Antistoke's line.

Laser Physics

2 Marks Questions

1) What does LASER stands for?

2) What is Stimulated absorption?

3) What is Spontaneous emission?

4) What is Stimulated emission?

5) What is meant by optical pumping?

6) What is metastable state?

7) What is population? How it can be achieved?

8) What is the average life time of an atom in a metastable state?

9) Mention the important condition for laser action.

10) Mention the applications of laser

11) Mention the types of laser.

12) What are Einstein coefficients?

13) Explain the difference between Ordinary light and Laser light

4 Marks Questions

1) Explain Laser action.
2) Explain the basic principle of laser.
3) Explain the term population inversion and optical pumping.
4) Derive an expression for Einstein coefficients relation.
5) Explain the construction of Ruby laser.
6) Explain the working of Ruby laser.
7) Mention the characteristics of laser.
8) Explain the three-level energy diagram for LASER action.

8 Marks Questions

1) Discuss the important applications of LASER.

2) Derive an expression for Einstein coefficients relation.

3) Explain the construction and working of Ruby laser.

UNIT IV- Statistical Mechanics

Concepts of thermodynamic ensembles (micro-canonical, canonical and grand canonical ensembles). Phase Space- Micro state & Macro state. Thermodynamic probabilities. Maxwell-Boltzmann Statistics. Derivation for Maxwell- Boltzmann distribution function. Limitations of Maxwell- Boltzmann Statistics. Concepts of Bosons and fermions. Bose-Einstein Statistics. Derivation for Bose- Einstein distribution function. Fermi-Dirac Statistics. Derivation for Fermi-Dirac distribution function. Comparison of Maxwell- Boltzmann Statistics, Bose-Einstein Statistics, Fermi-Dirac Statistics.

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2 Marks Questions

1) What is Micro state & Macro state.

2) What is Fermi energy?

3) What is fermions?

4) What is Ensembles?

5) What is phase space?

4 Marks Questions

1) Explain MB Statistics.

2) Explain BE Statistics.

3) Explain FD Statistics.

4) Distinguish between MB, BE & FD statistics.

5) What is ensembles? Explain different types of enswmbles.

6) Explain the limitations of MB statistics.

8 Marks Questions

1) Derive an expression for Maxwell-Boltzmann Distribution Law.

2) Derive the distribution function of Bose- Einstein statics.

3) Derive an expression for Fermi-Dirac Distribution Law.

Electronic Instrumentation & Sensors (Theory)

AC power and its characteristics, Single phase and three phase, Need for DC power supply and its characteristics, line voltage and frequency, Bridge rectifier.

Filters: Capacitor and inductor filers, L-section and π-section filters, ripple factor, electronic voltage regulators, stabilization factor, voltage regulation using ICs.

Basic electrical measuring instruments

Cathode ray oscilloscope- Block diagram, basic principle, electron beam, CRT features, signal display. Basic elements of digital storage oscilloscopes. Generation of Lissajous figures.

Basic DC voltmeter for measuring potential difference, Extending Voltmeter range, AC voltmeter using rectifiers.

Basic DC ammeter, requirement of a shunt, Extending of ammeter ranges.

Electrical fuses: different types. **Circuit breakers:** types, principle and applications .

Power supply

2 Marks Questions

1) What is Power supply?

2) What is regulated power supply?

3) What is Un-regulated power supply?

4) What is rectifier?

5) Mention the types of rectifiers.

6) What is PIV?

7) What is rectifier efficiency?

8) What is ripple factor?

9) What is voltage regulation?

10) Mention the types of rectifiers.

11) Define stability factor.

12) What is filter?

13) Mention the types of filters.

14) Mention the types of IC voltage regulator.

4 Marks Questions

1) Explain the block diagram of power supply.

2) Why bridge rectifiers are preferred to other rectifier circuits? Explain the working of a bridge rectifier.

3) Explain the working of power supply choke input filter with a neat diagram.

4) Explain the working of power supply capacitor input (pi-section) filter with a neat diagram.

5) Explain the working of power supply capacitor filter with a neat diagram.

6) Distinguish between Capacitor filters, L-section and π –section filters.

7) Explain Fixed voltage regulators.

8) Explain Adjusted voltage regulators.

9) Explain Regulated Dual Supplies.

8 Marks Questions

1) a) What is rectifier? Mention the types of rectifiers.

   b) With neat circuit diagram explain the working of bridge rectifier.

2) Explain the working of bridge rectifier with a neat diagram.compare bridge rectifier with full wave rectifier.

3) Explain the action of LC and Pi type filters in case of a power supply.

4) Discuss the IC voltage regulator.

Basic electrical measuring instruments

2 Marks Questions

1) What is CRO?
2) State the principle of CRO.
3) Mention the uses of CRO.
4) What is fuse?
5) Mention the types of fuses.
6) What is Electron gun?
7) What is electrostatic focusing?
8) What is persistence?

9) Define Luminescence.

10) What is synchronization?

11) What is the significance of CRO?

12) Mention the advantage of CRO.

13) Mention the disadvantages of CRO.

14) What are Lissajous figures?

15) What is voltmeter?

16) Mention the types of voltmeters.

17) What is ammeter?

18) Mention the types of ammeters.

19) What is electric fuse?

20) Mention the types of fuses.

21) What is circuit breaker?

22) Mention the types of circuit breaker.

23) What are the applications of circuit breaker.

4 Marks Questions

1) Explain the block diagram of CRO.

2) Mention the uses of CRO.

3) Explain Construction of CRT.

4) Explain working of Electron gun.

5) Explain Construction of Electron gun.

6) Explain Time base operation of CRO.

7) Explain Specifications of a CRO.

8) Explain block diagram of digital storage oscilloscope.

9) Explain the measurement of voltage.

10) Explain the measurement of frequency.

11) Explain the measurement of phase angle.

12) Compare an ammeter with voltmeter.

13) Explain the principle of Circuit breaker.

8 Marks Questions

1) Explain Front panel controls of a CRO.

2) Explain measurement of voltage, frequency & phase using Lissajous figures.

UNIT II-Wave form generators and Filters

Basic principle of standard AF signal generator: Fixed frequency and variable frequency,

AF sine and square wave generator, basic Wein-bridge network and oscillator configuration, Triangular and saw tooth wave generators, circuitry and waveforms. Passive and active filters. Fundamental theorem of filters, Proof of the theorem by considering a symmetrical T-network. Types of filters, Circuitry and Cut-off frequency and frequency response of Passive (RC) and Active (op-amp based) filters: Low pass, high pass and band pass.

Wave form generators and Filters

2 Marks Questions

1) What is signal generator?
2) What is Cut-off frequency?
3) What is symmetrical T-network?
4) What is image impedance
5) What is characteristic impedance?
6) Define a filter. How are filters classified?
7) What is frequency response?
8) What is pass band & a stop band?
9) What is Passive filter?
10) What is Active filter?
11) What is Low pass?
12) What is high pass?
13) What is band pass?
14) What is constant k type filter?

4 Marks Questions

1) Explain block diagram of Signal generator.
2) Explain basic Wein bridge network.
3) Explain triangular wave generator.
4) Explain sawtooth wave generator.

8 Marks Questions

1) With neat circuit diagram explain AF Sine and Square Wave Generator.
2) Discuss the Mathematic proof of fundamental theorem of filter.
3) Derive an expression for cut-off frequency of the Constant k Type Low Pass Filter.

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4) Derive an expression for cut-off frequency of the Constant k Type High Pass Filter.
5) Derive an expression for cut-off frequency of the Constant k Type Band Pass Filter
6) Derive an expression for cut-off frequency of First order Low pass filter and draw is frequency response.
7) Derive an expression for cut-off frequency of First order High pass filter and draw is frequency response.
8) Derive an expression for cut-off frequency of First order Band pass filter and draw is frequency response.

UNIT III- Transducers and sensors

Definition and types of transducers. Basic characteristics of an electrical transducer, factors governing the selection of a transducer, Resistive transducer-potentiometer, Strain gauge and types (general description), Resistance thermometer-platinum resistance thermometer. Thermistor. Inductive Transducer-general principles, Linear Variable Differential Transducer (LDVT)- principle and construction, Capacitive Transducer, Piezo-electric transducer, Photoelectric transducer, Photovoltaic cell, photo diode and phototransistor – principle and working.

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2 Marks Questions

1) Define transducers.
2) Mention the types of transducers.
3) Mention any two applications of transducer.
4) What is active transducer?
5) What is resistive transducer?
6) What is inductive transducer?
7) What is strain gauge?
8) What is LVDT?
9) What is thermistor?
10) Mention the types of thermistors.
11) What are the application of thermistor.

4 Marks Questions

1) Write the characteristics of transducer.
2) Write a note on resistive transducer.
3) Mention the types of Strain gauges.

4) Explain Resistance thermometer.

5) Explain principle & working of Capacitive transducer.

6) Explain principle & working of Photo electric transducer.

7) Explain principle & working of Photovoltaic cell.

8) Explain principle & working of Photo diode.

9) Explain principle & working of Phototransistor.

8 Marks Questions

1) Explain the construction and working of LVDT.

2) Explain the principle & working of Piezo electric transducer.

UNIT IV-MATHEMATICAL PHYSICS

Fourier Series: Periodic functions. Orthogonality of sine and cosine functions, Dirichlet Conditions (Statement only). Expansion of periodic functions in a series of sine and cosine functions and determination of Fourier coefficients. Complex representation of Fourier series. Expansion of functions with arbitrary period. Expansion of non-periodic functions over an interval. Application. Summing of Infinite Series.

Laplace transform: Definition, transform of elementary functions, inverse transforms, transform of derivations, differentiation and integration of transforms. Difference between Laplace and Fourier transform.

Fourier Series

2 Marks Questions

1) Define periodic function with examples.

2) Write any two examples of periodic function for Fourier series.

3) Find the Fourier transform of $\frac{1}{t}$.

4 Marks Questions

1) Write the Dirichlet's conditions for Fourier series.

2) Find the Fourier sine & cosine transform of $f(t) = e^{-at}$.

3) Find the Fourier transform of $f(t) = \begin{cases} 1 & |x| < a \\ 0 & |x| > a \end{cases}$

4) Find the Fourier transform of $f(t) = \begin{cases} t^2 & |t| < a \\ 0 & |t| > a \end{cases}$

5) Find the Fourier transform of $f(t) = \begin{cases} 1-t^2 & |t| \leq 1 \\ 0 & |t| > 1 \end{cases}$

6) Find the Fourier transform of $f(t) = e^{-2t} + 4e^{-3t}$.

7) Find the sine transform of $f(t) = \begin{cases} \sin t & \text{when} \quad 0 < t < a \\ 0 & \text{when} \quad t > a \end{cases}$

8) Define and prove complex representation of Fourier series.

8 Marks Questions

1) Find the Fourier series of $f(x) = x$ and sketch this graph from $x = -4\pi$ to $x = 4\pi$.

2) Represent the function $f(x) = x, \quad (-\pi, \pi)$ then $\frac{\pi}{4} - 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \frac{1}{9} - \frac{1}{11} + \frac{1}{13} - - - - -$,

3) Determine Fourier coefficient a_0, a_n, b_n.

4) Explain Orthogonality of sine & cosine functions
.

Laplace transform:

2 Marks Questions

1) What do you mean by Laplace transform?

2) Find the Laplace transformation of e^{at}

3) What do you mean by Inverse Laplace transform?

4) Find the Laplace transformation of $\left[\dfrac{1-e^{at}}{t} \right]$

5) Find the Inverse Laplace transformation of $\left[\dfrac{s}{s^2-16} \right]$.

6) Find the Inverse Laplace transformation of $\left[\dfrac{3}{(s-2)} \right]$

7) Find the Inverse Laplace transformation of $\left[\dfrac{1}{s^2+25} \right]$

8) Find the Inverse Laplace transformation of $\left[\dfrac{s}{(s-6)} \right]$

4 Marks Questions

1) State and explain linear property of Laplace transform.

2) State and explain change of scaling property of Laplace transform.

3) State and explain any two properties of Laplace transform.

4) State and explain Convolution theorem for Laplace transform.

5) Find the Laplace transformation of $\sin 2t \sin 3t$.

6) Find the Laplace transformation of $L\{e^{at} \sinh bt\}$.

7) Find the Laplace transformation of $\left[\dfrac{120s}{(s-1)(s+2)(s^2-2s-3)}\right]$.

8) Explain Laplace transform of derivative.

9) Find the Laplace transformation of $f(t) = t^2$ using the transform of derivative.

10) Find the solution of $y'' + 4y' + 13y = 20e^{-t}, y(0) = t, y'(0) = 3$.

11) Discuss the difference between Laplace transform & Fourier transform.

12) Establish the relation between Fourier transform & Laplace transform.

Molecular Spectra

UNIT -III

Molecular Physics

Types of molecules based on their moment of inertia; Types of molecular motions: Rotational and Vibrational motions and energies.

Microwave Spectra: *Theory of rigid rotator – energy levels and spectrum.*

Infra-Red Spectra: *Theory of vibrating molecule as a simple harmonic oscillator – energy levels and spectrum.*

Introduction: *A band of colours or a patch of a colours obtained by dispersion of light is called spectrum.*

An emission or absorption produced in some group of frequencies overlap over short range is called band spectrum

Origin of Molecular Spectra

Molecular spectra result from either the absorption or the emission of electromagnetic radiation as molecules undergo changes from one quantized energy state to another. The mechanisms involved are similar to those observed for atoms but are more complicated.

(The molecular spectra aeries due to transitions between allowed energy states of molecules. Molecular Spectra (band spectra) are produced due to excitation of a substance in the molecular state.)

The transition between two energy states of a molecule, as a result of absorption or emission of energy will give rise to a spectral line. When a molecule suffers a transition from higher energy state with energy E to a lower energy state E^1, the difference of energy $\Delta E = (E - E^1)$ is emitted as radiation frequency v given by

$$v = \frac{E - E^1}{h}$$

For each allowed transition, we get one line in the spectrum of the molecule. Similarly, we have the frequency in the absorption spectrum when the molecule suffers a transition from lower energy state to higher energy state.

Types of Spectra: *Continuous, Emission, and Absorption.*

The three types of molecular spectra are:

1. *Pure rotational spectra.*
2. *Vibrational rotational spectra.*
3. *Electronic band spectra.*

Pure Rotational spectrum
The spectrum obtained in the far infrared region is called pure rotational spectrum. This spectrum is obtained when the molecule is in its ground state level of electronic and vibrational energies and it suffers transition between different rotational energies.

Vibration-Rotation spectrum

The spectrum obtained in the near infrared region is called vibration-rotation spectrum. This spectrum consists of a large number of bands and band consists of equally spaced closed lines when observed under high resolving spectroscope. The spacing between the lines is the same as in pure rotational spectrum.

This spectrum is obtained if the molecule remains is its ground state and if transitions occur between different vibrational and rotational energies.

Electron spectrum

The spectrum obtained near visible or ultraviolet region is called electron spectrum. It consists of bands and each system has number of bands.
The internal energy of the molecule is due to electronic, rotational and vibrtional energies and is given by

$$E = E_c + E_r + E_v$$

The electronic system is obtained when the transitions occur between different electric rotational and vibrational energy levels as a result of absorption and emission of radiation.

General feature of molecular Spectra

The spectra given by atoms due to energy changes in their electronic system are known as atomic spectra. Similarly, the spectra emitted by molecules are known as band spectra or molecular spectra. The molecular spectra arise from
1. The rotation of a molecule about its center of mass.
2. Vibration of the atoms about the equilibrium position along the line joining the two atoms and
3. Electronic configuration of the electrons in the molecule. The molecular spectra occur in three regions.

Comparison between Line Spectrum and Band Spectrum

	Line Spectrum	*Band Spectrum*
Short description	*A spectrum of radiation in which the quantity is studied, such as frequency or energy, takes on discrete values.*	*A spectrum consisting of groups or bands of closely spaced lines in emission or absorption, characteristic of molecular gases and chemical compounds.*
Also known as	*Atomic spectra.*	*Molecular spectra.*
View	*Appears as parallel lines when viewed from a slit.*	*Appears as continuous form of bands when viewed from a spectroscope.*
Nature	*They are distinct and unique.*	*They are continuous and closely spaced with one another.*

Rotational Spectra of a Diatomic Molecule as a Rigid Rotator

Rotational spectra arises due to transition of molecules between allowed rotational energy.

Consider a diatomic molecule consisting of atoms of masses m_1 and m_2 a distance R apart. The diatomic molecule can rotate about its center of mass as shown in fig.
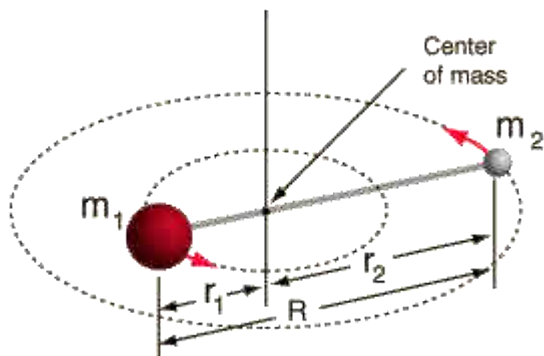
The moment of inertia of this molecule about an axis passing through its center of mass and perpendicular to a line joining the atoms is

$$I = m_1 r_1^2 + m_2 r_2^2 \text{ ---------- (1)}$$

Where r_1 and r_2 are the distances of m_1 and m_2 respectively from the center of mass

As the center is balanced about its center of gravity, we have

$$m_1 r_1 = m_2 r_2 \text{ ----------------------- (2)}$$
$$R = r_1 + r_2 \text{ ----------------------- (3)}$$

Solving the equation (2) and (3) we have

$$r_1 = \frac{m_2}{m_1 + m_2} R \quad and \quad r_2 = \frac{m_1}{m_1 + m_2} R$$

Substituting this value of r_1 and r_2 in the equation (1)

$$I = m_1 r_1^2 + m_2 r_2^2$$

$$= \frac{m_1 m_2^2}{(m_1 + m_2)^2} R^2 + \frac{m_2 m_1^2}{(m_1 + m_2)^2} R^2$$

$$= \frac{m_1 m_2}{(m_1 + m_2)} R^2$$

$$I = \mu R^2 \text{ --------------------------- (4)}$$

Where the reduced mass μ is defined as

$$\mu = \frac{m_1 m_2}{(m_1 + m_2)}$$

Kinetic energy $\quad E = \frac{1}{2} m_1 v_1^2 + \frac{1}{2} m_2 v_2^2 \quad ------(5)$

Where v_1 & v_2 on the linearity velocity of masses m_1 & m_2 respectively.

Kinetic energy E of rotating molecules in terms of angular velocity.

$$E = \frac{1}{2} m_1 r_1^2 \omega^2 + \frac{1}{2} m_2 r_2^2 \omega^2$$

$$E = \frac{1}{2} \omega^2 \left(m_1 r_1^2 + m_2 r_2^2 \right)$$

$$E = \frac{1}{2} \omega^2 I \quad -----(6)$$

Angular momentum L of rotating molecule from classical mechanics given by $L = I\omega$------(7)
Substituting ω from equation (7) in equation (6) we get,

$$E = \frac{1}{2} I \omega^2$$

$$= \frac{1}{2} I \left(\frac{L}{I} \right)^2 \qquad \because \omega = \frac{L}{I}$$

$$E = \frac{L^2}{2I} \text{ ------------------ } (7)$$

The angular momentum of the rotating diatomic molecule is quantized according to

$$L = \sqrt{J(J+1)} \; \hbar = \sqrt{J(J+1)} \frac{h}{2\pi} \text{ ------}(8) \quad Where \; J = 0, 1, 2, 3, 4 \ldots$$

Where J is called the rotational quantum number.

$$L^2 = I^2 \omega^2 = \left[\sqrt{J(J+1)} \; \hbar \right] = J(J+1) \frac{h^2}{4\pi^2} \text{ ---------}(9)$$

As there is no potential energy & KE may be represented by E, the energy of rotating molecule is given by,

$$E_J = \frac{1}{2} I \omega^2$$

$$\omega^2 = \frac{2E_J}{I} \text{ -----}(10)$$

Substituting the value of ω^2 in the equation (9) we get,

$$I^2 \omega^2 = J(J+1) \frac{h^2}{4\pi^2}$$

$$I^2 \frac{2E_J}{I} = J(J+1) \frac{h^2}{4\pi^2}$$

$$E_J = J(J+1) \frac{h^2}{8\pi^2 I} \quad Joule \text{ ------}(11)$$

Above equation gives the rotational energy level allowed to rigid atomic molecule.
W.K.T

$$E_J = h\upsilon = h\frac{c}{\lambda} = hc\bar{\upsilon}$$

$$E_J = hc\bar{\upsilon} \text{ ----}(12) \quad \left(\because \bar{\upsilon} = \frac{1}{\lambda} \right)$$

$$\bar{\upsilon} = \frac{E_J}{hc} = \frac{h^2}{8\pi^2 I} \quad \frac{J(J+1)}{hc} \quad cm^{-1} \text{ ---}(13) \left(\because Wave\; number = \bar{\upsilon} \right)$$

*If we divide the expression for the energy E_J by the '**hc**' to the equation (12) and substitute the above value $\bar{\upsilon}$ from equation (13) we get what is known as the term value of the molecular level. Thus, we have*

$$E_J = hc\bar{\upsilon} \text{ ----}(12)$$

$$\frac{E_J}{hc} = hc \frac{h^2}{8\pi^2 I} \quad \frac{J(J+1)}{hc} \quad cm^{-1}$$

$$E_J = \frac{h}{8\pi^2 Ic} J(J+1) \quad cm^{-1} \text{ ---}(14)$$

When energy is expressed in cm^{-1} it is expressed by the name epsilon ε.
Equation (13) is abbreviated as $\varepsilon_J = BJ(J+1) \quad cm^{-1}$

Where $\qquad B = \dfrac{h}{8\pi^2 Ic}$

B is called the rotational constant.
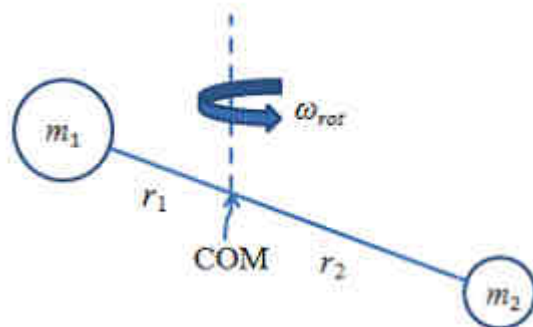
To find the energy level Substituting equation (8) in equation (7) we get

$$E = \frac{\left(\sqrt{J(J+1)}\,\hbar\right)^2}{2I}$$

$$E = \frac{\left(J(J+1)\hbar\right)^2}{2I}$$

$$put \quad I = \mu R^2, then$$

$$E = \frac{J(J+1)\hbar^2}{2\mu R^2}$$

$$\therefore E_J = \frac{J(J+1)\hbar^2}{2\mu R^2} ------- (15)$$

For different value of J Kinetic energy E due to rotation is given by $E_J = \frac{J(J+1)\hbar^2}{2\mu R^2}$

Substitute J=0,1,2,3,4

For J=0	For J=1	For J=2	For J=3	For J=4
$E_0 = 0$	$E_1 = \frac{2\hbar^2}{2\mu R^2}$	$E_2 = \frac{6\hbar^2}{2\mu R^2}$	$E_2 = \frac{12\hbar^2}{2\mu R^2}$	$E_2 = \frac{20\hbar^2}{2\mu R^2}$

A rotational transition occurs only in those molecules having permanent electric dipole moment. Thus, homopolar molecules i.e., diatomic molecule with two identical nuclei such as O_2, H_2, N_2, CO_2 & CH_4 do not exhibit rotational spectra.

Selection Rule for rigid rotator:

For a given molecule only those transitions are possible between allowed rotation energy levels for which $\Delta J = \pm 1$ *. +1 is for absorption of energy & -1 for emission of energy.*

$$\Delta J = \pm 1 \quad -------------- (11)$$

Thus, a transition between two rotational states differing in value by 1 gives rise to a rotational spectral line. The wave number of such line is given by

$$\bar{v} = B[(J+1)(J+2) - J(J+1)]$$

$$\bar{v} = 2B(J+1) = \frac{h}{8\pi^2 Ic} J(J+1) ---------------------- (12)$$

The spacing between two consecutive rotational lines is therefore

$$\Delta \bar{v} = 2B = \frac{h}{4\pi^2 Ic} ---------------------------- (13)$$

The expression is independent of J. This means that pure rotational spectral lines are generally spaced.

Frequency of spectral line:

In practical situation the rotational spectra are always obtained in absorption when a molecule makes transition from initial state of quantum number J to next higher state of quantum number J+1

Let E_{J+1} *=Energy of higher state with quantum number J+1*

E_J *= Energy of higher state with quantum number J*

$$h\upsilon = E_{J+1} - E_J$$

$$h\upsilon = \frac{(J+1)(J+1+1)\hbar^2}{2\mu R^2} - \frac{J(J+1)\hbar^2}{2\mu R^2}$$

$$h\upsilon = \frac{(J+1)\hbar^2}{2\mu R^2}[\cancel{J}+2-\cancel{J}]$$

$$h\upsilon = \frac{(J+1)\hbar^2}{\mu R^2} \quad put \quad \hbar = \frac{h}{2\pi}$$

$$h\upsilon = \frac{(J+1)}{\mu R^2}\left(\frac{h^2}{4\pi^2}\right)$$

$$\upsilon = \frac{(J+1)h^{\cancel{2}}}{\cancel{h}4\pi^2\mu R^2}$$

$$\upsilon = (J+1)\upsilon_0 \qquad where \quad \upsilon_0 = \frac{h}{4\pi^2\mu R^2}$$

$$\upsilon_{J\to J+1} = (J+1)\upsilon_0$$

(1) *For* $J = 0$

$$\upsilon_{0\to 1} = (1)\upsilon_0 = \upsilon_0$$

(2) *For* $J = 1$

$$\upsilon_{1\to 2} = (2)\upsilon_0 = 2\upsilon_0$$

(3) *For* $J = 2$

$$\upsilon_{2\to 3} = (3)\upsilon_0 = 3\upsilon_0$$

(4) *For* $J = 3$

$$\upsilon_{3\to 4} = (4)\upsilon_0 = 4\upsilon_0$$

The energy levels and absorption transitions of a rigid rotator.

Thus, Rotational spectra of diatomic molecule (a Rigid rotator) consists of equally spaced lines. The frequency of the lines is given by

$$v = \frac{h}{4\pi^2 Ic}J(J+1) \text{-------------------------------- (14)}$$

The energy corresponding to the spectral line is

$$E = hv = \frac{h^2}{8\pi^2 Ic}J(J+1) \text{---------------------- (15)}$$

Where I is the moment of inertia of the molecule about the axis of rotation and J is the rotational quantum number which can take value 0, 1, 2, 3...Rotational transitions are restricted to those in which J changes by 1. Rotational energy changes are comparatively small, being of the order of 0.005eV compared to 0.1 eV for a vibrational change and 5 eV for an electronic change. For a given vibrational change a number of rotational lines are thus possible and those constitute a band. The series of band for a given electronic transition is called a band group or band system. The whole series of band groups corresponding to the various electronic constitute the electronic band spectrum.
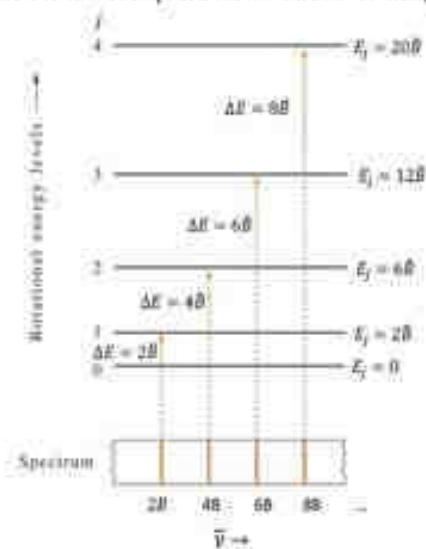
Rotational Spectra of a Diatomic Molecule as a Non-Rigid Rotator

Rotation bond length between two molecules is change, it is called non-rigid rotator.
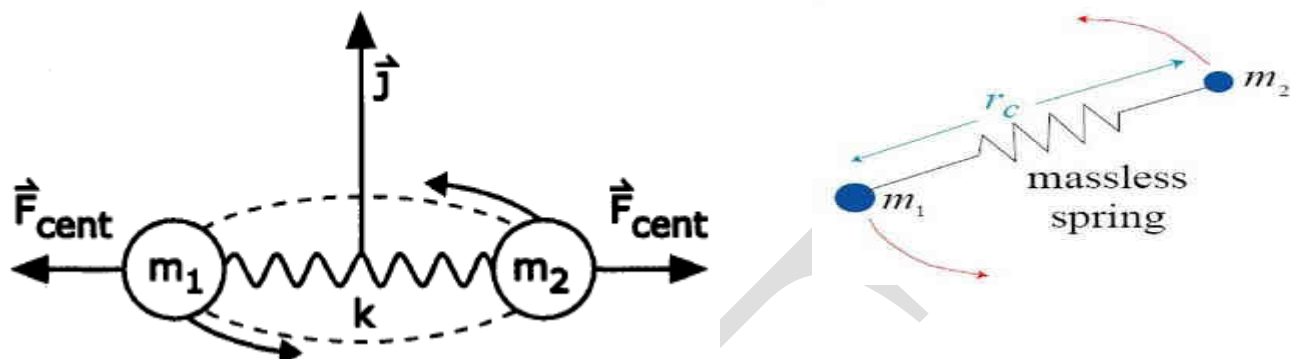
Consequences of the change in bond length with J

I. *When a bond is elastic, it will stretch and compress periodically with a certain functional frequency dependent upon the masses of the atoms and the elasticity (or force constant k) of the bond. This means that the molecule may have vibrational energy.*
If the vibrational motion is simple harmonic, the force constant k is given by $k = 4\pi^2 \omega^2 c^2 \mu$
Here ω is the vibrational frequency (in m^{-1}), μ is the reduced mass of the molecule. The variation of B with J is decreased by the force constant, i.e., the weaker the bond, more readily will it distort under centrifugal forces.

II. *The second consequence of elasticity is that the quantities R and B vary during a vibration.*

Energy Levels

Consider a single particle of reduced mass μ rotating about a fixed point with an angular velocity, ω. Let the particle be at a distance r_0 from the fixed point when there is no rotation. Let this length increases to R, when the particle rotates.

Centrifugal force during rotation $F_C = \mu R \omega^2$.

Restoring force due to bond stretching $F_r = k(R - r_0)$

The above two forces balance each other at any instant of rotation.

$$F_C = F_r$$

$$\mu R \omega^2 = k(R - r_0)$$

$$\mu R \omega^2 = kR - kr_0$$

$$kR - \mu R \omega^2 = kr_0$$

$$R(k - \mu \omega^2) = kr_0$$

$$\therefore R = \frac{kr_0}{(k - \mu \omega^2)}$$

This gives the distorted bond length.

Total energy of the rotating system =K. E+P.E

$$E = \frac{1}{2} I \omega^2 + \frac{1}{2} k(R - r_0)^2$$

$$E = \frac{1}{2}I\omega^2 + \frac{1}{2}k\frac{\mu^2 R^2 \omega^4}{k^2} \qquad \left[\because (R-r_0) = \frac{\mu R \omega^2}{k} \right]$$

$$E = \frac{1}{2}I\omega^2 + \frac{1}{2}\frac{(I\omega^2)^2}{kR^2} \qquad \left[\because I = \mu R^2 \right]$$

$$E = \frac{L^2}{2I} + \frac{L^4}{2I^2 kR^2}$$

The quantum restriction that the angular momentum L= Iω be quantized according to $L = \sqrt{J(J+1)}\hbar$
will convert this classical result to a quantum mechanical result. $L = \sqrt{J(J+1)}\ \hbar = \sqrt{J(J+1)}\ \frac{h}{2\pi}$

The corrected allowed energies are

$$E = \frac{h^2}{8\pi^2 I}J(J+1) + \frac{h^4}{32\pi^2 I^2 kR^2}J^2(J+1)^2$$

In the above equation the first term is major importance. The second is a minor term. It is finally
necessary to relate the distorted R in the first term to r₀ by means of equation $R = \frac{kr_0}{(k-m\omega^2)}$ *.In this way,*
and approximating R by r₀ in the second term, we get

$$E_J = \frac{h^2}{8\pi^2 I}J(J+1) - \frac{h^4}{32\pi^4 I^2 R^2 F}J^2(J+1)^2 \qquad (Joule)$$

$F = Force\ constant$
$F = 4\pi^2 \upsilon^2 c^2 \mu \qquad\qquad (\upsilon = Vibrational\ frequency)$
$E = hF$
$E = \frac{hc}{\lambda} \qquad \because F = \frac{c}{\lambda}$
$\frac{E}{hc} = \frac{1}{\lambda}$
$\frac{E}{hc} = \bar{\upsilon} \qquad int\,erms\ of\ wave\,number$

We are interested in the wave number $\bar{v} = \frac{\Delta E}{hc}$ *of the radiation emitted or absorbed as a consequence of*
change between energy levels. So, we consider energies in these units.
In term of wave number units,

$$\bar{\upsilon} = \frac{E_J}{hc} = \frac{h^2}{8\pi^2 Ihc}J(J+1) - \frac{h^4}{32\pi^4 I^2 R^2 Fhc}J^2(J+1)^2 \qquad (cm^{-1})$$

$$\bar{\upsilon} = \frac{h}{8\pi^2 Ic}J(J+1) - \frac{h^3}{32\pi^4 I^2 R^2 Fc}J^2(J+1)^2 \qquad (cm^{-1})$$

$$\bar{\upsilon} = BJ(J+1) - DJ^2(J+1)^2 \qquad (cm^{-1})$$

Where $B = \frac{h}{8\pi^2 Ic}$ & $D = \frac{h^3}{32\pi^4 I^2 R^2 Fc}$

Thus. the expression for the rotational energy levels is, $\varepsilon_J = BJ(J+1) - DJ^2(J+1)^2$
Here, D is called the **centrifugal distortion constant.**

When diatomic molecule jumps to J+1 then wave number is

$$\bar{\upsilon} = BJ(J+1) - DJ^2(J+1)^2 \qquad (cm^{-1})$$

$$J \rightarrow J+1$$

$$\upsilon_{J+1} = B(J+1)(J+1+\bar{1}) - D(J+1)^2(J+1+1)^2$$

$$\upsilon_{J+1} = B(J+1)(J+2) - D(J+1)^2(J+2)^2$$

$$\upsilon_{J+1} - \upsilon_J = \left[B(J+1)(J+2) - D(J+1)^2(J+2)^2 \right] - \left[BJ(J+1) - DJ^2(J+1)^2 \right]$$

$$\upsilon_{J+1} - \upsilon_J = B(J+1)(J+2) - D(J+1)^2(J+2)^2 - BJ(J+1) + DJ^2(J+1)^2$$

$$\upsilon_{J+1} - \upsilon_J = B(J+1)(J+2) - BJ(J+1) - D(J+1)^2(J+2)^2 + DJ^2(J+1)^2$$

$$\upsilon_{J+1} - \upsilon_J = B(J+1)\left[(J+2)-J\right] - D(J+1)^2\left[(J+2)^2 - J^2\right]$$

$$\upsilon_{J+1} - \upsilon_J = B(J+1)\left[\cancel{J}+2-\cancel{J}\right] - D(J+1)^2\left[\cancel{J^2}+2^2+2(J)(2)-\cancel{J^2}\right]$$

$$\upsilon_{J+1} - \upsilon_J = B(J+1)\left[2\right] - D(J+1)^2\left[4+4J\right]$$

$$\upsilon_{J+1} - \upsilon_J = 2B(J+1) - D(J+1)^2 4\left[J+1\right]$$

$$\upsilon_{J+1} - \upsilon_J = 2B(J+1) - 4D(J+1)^3$$

$$D = \frac{4B^3}{\omega^2}, \text{ } D \text{ is very small compared with } B.$$

The energy levels and absorption transitions of a rigid rotator and non-rigid rotor.
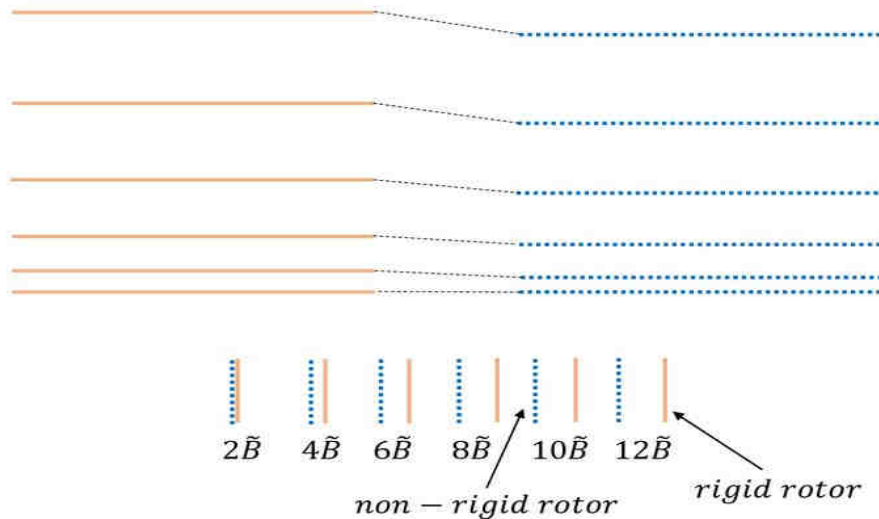
Fig shows the lowering of rotational levels when passing from the rigid to the non rigid diatomic molecule. The difference between the energy levels increases with increasing value of J.

Selection Rule for non-rigid rotator:

The rotational absorption spectrum is produced due to molecular transition from the state J to the (J+1). The selection rule is $\Delta J = +1.$

$$\bar{v}_{J+1} - \bar{v}_J = \Delta \bar{v}$$

$$\Delta \bar{v} = B[(J+1)(J=2) - J(J+1)] - D[(J+1)^2(J+2)^2 - J^2(J+1)^2]$$

$$\Delta \bar{v} = 2B(J+1) - 4D(J+1)^3 \, m^{-1}$$

Thus, we see that the spectrum of a non rigid diatomic molecule is similar to that of the rigid rotator except that each line is displaced slightly to low frequency as show in fig below.
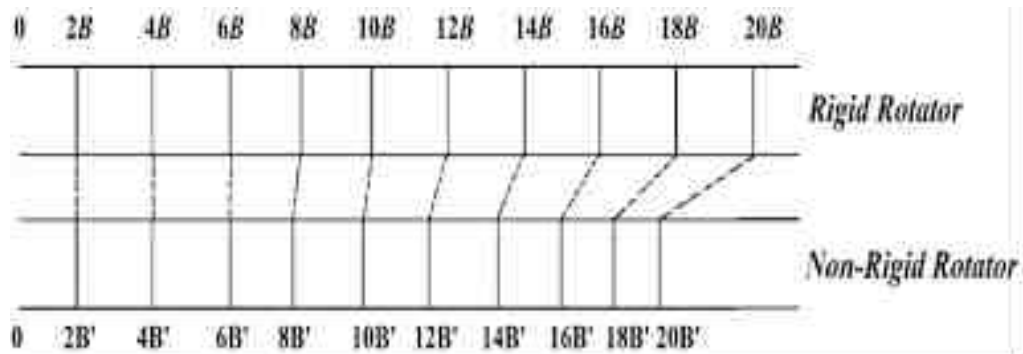
We note from the equation $\Delta \bar{v} = 2B(J+1) - 4D(J+1)^3\, m^{-1}$ *that the lines are no longer exactly equidistant but their separation decreases slightly with increasing J. The effect, however, is small owing to the smallness of D as compared to B.*

Vibrational energy level & Vibrational Spectra of a Diatomic Molecule as a Simple Hormonic Oscillator

Consider vibrational motion of diatomic molecule. m_1 *and* m_2 *be the masses of a atoms forming the diatomic molecule. Let, the atoms are separated by equilibrium distance* r_0*. As the molecules vibrate along the line joining the atoms the distance between them changes. Let at any instant of vibrational motion the separation between two atoms be 'r' the*

Restoring force α displacement (Hook's law)

$F \alpha (r - r_0)$

$F = k(r - r_0)$ $-----$(1)

Where k is force constant

$(r - r_0) = x$

$F = -ax$ $-----$(2)

Let m_1 *and* m_2 *be the masses of a atoms forming the diatomic molecule.*

The reduced mass μ is given by, $\mu = \dfrac{m_1 m_2}{(m_1 + m_2)}$ $-------$(3)

According to Newton's Second law of motion F = ma

$F = ma$

$F = \mu \dfrac{d^2 x}{dt^2}$ $-----$(4)
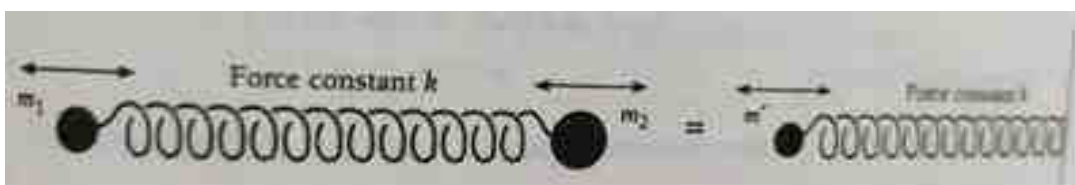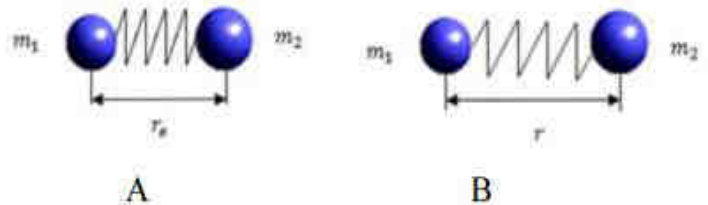
Comparing equation (2) & (4) we get

$$\mu \frac{d^2x}{dt^2} = -kx$$

$$\frac{d^2x}{dt^2} = -\frac{k}{\mu}x$$

$$\Rightarrow \frac{d^2x}{dt^2} + \frac{k}{\mu}x = 0$$

$$\frac{d^2x}{dt^2} + \omega^2 x = 0 \qquad Where \quad \omega^2 = \frac{k}{\mu}$$

This is the differential equation of simple harmonic oscillator.
Angular frequency of vibration of molecule is given by

$$\omega = \sqrt{\frac{k}{\mu}}$$

$$2\pi \upsilon_0 = \sqrt{\frac{k}{\mu}}$$

$$\upsilon_0 = \frac{1}{2\pi}\sqrt{\frac{k}{\mu}}$$

Quantum mechanical treatment of the above equation is $F = -\dfrac{dv}{dx}$ $-------(5)$

Where v is the potential energy of vibrational molecules
From equation (2) $F = -kx$

Comparing the above equation we get, $-\dfrac{dv}{dt} = -kx \qquad \Rightarrow dv = kx\,dx \qquad ----(6)$

Integrating both sides of equation (6)

$$\int dv = \int_0^x kx\,dx$$

$$v = k\int_0^x x\,dx$$

$$v = k\left(\frac{x^2}{2}\right)_0^x$$

$$v = \frac{1}{2}kx^2 \qquad ----(7)$$

Now Schoedinger time dependent wave equation in 1-D is given by

$$\frac{\delta^2\psi}{\delta x^2} + \frac{2m}{\hbar^2}(E-v)\psi = 0 \qquad ------(8)$$

Using (7) in (8) we get

$$\frac{\delta^2\psi}{\delta x^2} + \frac{2m}{\hbar^2}\left(E - \frac{1}{2}kx^2\right)\psi = 0$$

On solving above equation, eigen value for simple hormonic oscillator is given by

$$E_n = \left(n + \frac{1}{2}\right)h\upsilon_0 \qquad -------(9)$$

Where n = vibrational quantum number
        υ_0 = *vibrational frequency*
Now n =0,1,2, 3………….is the vibrational quantum number

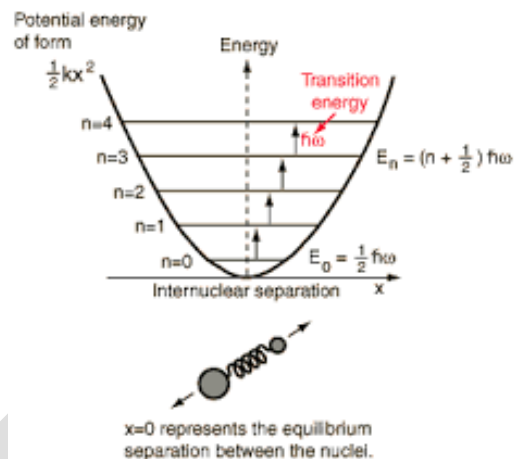$$\upsilon_0 = \frac{1}{2\pi}\sqrt{\frac{k}{\mu}}$$

Vibrational energy level is equally spaced

(1) *For* $n = 0$ $E_0 = \frac{1}{2}h\upsilon_0$ (*Zero po* int *energy*)

(2) *For* $n = 1$ $E_1 = \frac{3}{2}h\upsilon_0$

(3) *For* $n = 2$ $E_2 = \frac{5}{2}h\upsilon_0$

(4) *For* $n = 3$ $E_3 = \frac{7}{2}h\upsilon_0$

He vibrational energy of level of diatomic molecules are equal distances & quantized.

$$E_1 - E_0 = \frac{3}{2}h\upsilon_0 - \frac{1}{2}h\upsilon_0 = h\upsilon_0$$

$$E_2 - E_1 = \frac{5}{2}h\upsilon_0 - \frac{3}{2}h\upsilon_0 = h\upsilon_0$$

Hence vibrational energy is equally spaced.

Selection Rules for Vibrational spectra:
Between variation in discrete vibrational energy level of diatomic molecule only those transitions are allowed for which difference in vibrational quantization number n of two level is $\Delta n = \pm 1$

Frequency of Vibrational spectra:
Let molecule makes transition from higher level having quantum number (n+1) to lower energy level having quantum number n, then

$$h\upsilon = E_{n+1} - E_n$$

$$h\upsilon = \left(n+1+\frac{1}{2}\right)h\upsilon_0 - \left(n+\frac{1}{2}\right)h\upsilon_0$$

$$h\upsilon = h\upsilon_0\left[n+1+\frac{1}{2}-n-\frac{1}{2}\right]$$

$$h\upsilon = h\upsilon_0$$

$$\upsilon = \upsilon_0$$

$$\upsilon = \frac{1}{2\pi}\sqrt{\frac{k}{\mu}}$$

This gives the frequency of spectral line in vibration emission spectra. Similarly, the frequency of spectral line in vibrational absorption spectra is υ_0.

Region of spectrum:
*The frequency of lines in vibrational spectra lies in **infrared region**.*

Problems

1) *The frequency difference between two successive lines on the pure rotational spectrum of CO molecule as a mean value of 11.52×10^{10} per sec. Calculate the M.I of the molecule & hence calculate CO bond length.*

Mass of C –atom =12 amu
Mass of O--atom =16 amu

$$\Delta \bar{v} = 11.52 \times 10^{10}/sec$$

$$I = ?, \qquad \& \qquad r = ?$$

$$\mu = \frac{m_1 m_2}{(m_1 + m_2)}$$

$$= \frac{12 \times 16}{12 + 16} = \frac{192}{28} = 6.574 \, amu$$

$$I = \frac{h}{4\pi^2 c (\Delta \bar{v})}$$

$$= \frac{6.63 \times 10^{-34}}{4 \times (3.142)^2 \times 3 \times 10^8 \times 11.52 \times 10^{10}} = \frac{6.63 \times 10^{-34}}{4 \times 9.87216 \times 3 \times 10^8 \times 11.52 \times 10^{10}}$$

$$= \frac{6.63 \times 10^{-34-18}}{1364.7273} = 0.004858113 \times 10^{-52}$$

$$I = 0.4858 \times 10^{-54} kgm^2$$

$$\mu = 6.857 amu$$

$$1 amu = 1.67 \times 10^{-27} kg$$

$$\mu = 6.857 \times 1.67 \times 10^{-27} kg = 11.45119 \times 10^{-27} kg$$

$$r = \sqrt{\frac{I}{\mu}} = \sqrt{\frac{0.4858 \times 10^{-54}}{11.45 \times 10^{-27}}} = \sqrt{0.09242 \times 10^{-27}} = 0.6493 \times 10^{-14} m$$

2) *The line in the pure rotational spectrum of HCl are spaced as 20.8×10^{12}/sec. Calculate M.I & intermolecular distance when reduced mass of HCl is 1.62×10^{-27} kg.*

$$\mu = 1.62 \times 10^{-27} kg$$

$$\Delta \bar{v} = 20.8 \times 10^{12}/sec, \quad I = ? , r = ?$$

$$I = \frac{h}{4\pi^2 c (\Delta \bar{v})}$$

$$= \frac{6.63 \times 10^{-34}}{4 \times (3.142)^2 \times 3 \times 10^8 \times 20.8 \times 10^{12}} = \frac{6.63 \times 10^{-34}}{4 \times 9.87216 \times 3 \times 10^8 \times 20.8 \times 10^{10}}$$

$$= \frac{6.63 \times 10^{-34-20}}{821.3637} = 0.00269064 \times 10^{-54}$$

$$I = 2.6906 \times 10^{-57}$$

$$r = \sqrt{\frac{I}{\mu}} = \sqrt{\frac{2.6906 \times 10^{-57}}{1.62 \times 10^{-27}}} = \sqrt{1.6608 \times 10^{-30}} = 1.2887 \times 10^{-15} m$$

3) *The line in the pure rotational spectrum of HCl are spaced as 20.8×10^{12}/sec. Calculate M.I & bond length of proton is 1.67×10^{-27} kg, mass of Cl=68.5×10^{-27} kg.*

Given $\qquad m_1 = 1.67 \times 10^{-27} kg, \qquad m_2 = 58.5 \times 10^{-27} kg, \qquad \Delta \bar{v} = 20.8 \times 10^2/sec,$

$$\mu = \frac{m_1 m_2}{(m_1 + m_2)}$$

$$= \frac{1.67 \times 10^{-27} \times 58.5 \times 10^{-27}}{1.67 \times 10^{-27} + 58.5 \times 10^{-27}} = 1.6236 \times 10^{-27}$$

$\mu = 1.6236 \times 10^{-27} kg$

$$\overline{\Delta v} = \frac{h}{2\pi I c} = 20.8 \times 10^2 \, m^{-1}$$

$$I = \frac{h}{2\pi c (\overline{\Delta v})}$$

$$= \frac{1.054 \times 10^{-34}}{2 \times (3.142)^2 \times 3 \times 10^8 \times 20.8 \times 10^2} = \frac{1.54 \times 10^{-34}}{2 \times 9.87216 \times 3 \times 10^8 \times 20.8 \times 10^2}$$

$$= \frac{1.54 \times 10^{-34-10}}{1232.0455} = 0.001249538 \times 10^{-44}$$

$I = 1.249538 \times 10^{-47}$

$$r = \sqrt{\frac{I}{\mu}} = \sqrt{\frac{1.24958 \times 10^{-47}}{1.62 \times 10^{-27}}} = \sqrt{1.6608 \times 10^{-20}} = 1.2887 \times 10^{-10} m$$

4) *In the CO molecule the wavelength difference between the successive absorption lines in the pure rotational spectrum is 384 m^{-1}. Calculate the moment of inertia of the molecule and the equilibrium bond length of the molecule. Masses of the C^{12} and O^{16} atoms are respectively 1.99x10^{-26}kg and 2.66x10^{-26}kg.*

$$\overline{\Delta v} = \frac{h}{2\pi I c} = 384 m^{-1}$$

$$\therefore I = \frac{h}{2\pi c \overline{\Delta v}} = \frac{1.054 \times 10^{-34}}{2\pi \times (3 \times 10^8) \times 384} = 1.456 \times 10^{-46} \, kgm^2$$

The reduced mass μ of the CO molecule is

$$\mu = \frac{m_1 m_2}{(m_1 + m_2)}$$

$$= \left[\frac{1.99 \times 2.66}{1.99 + 2.66} \right] \times 10^{-26} kg = 1.138 \times 10^{-26} kg$$

$$Bond\ length = r = \sqrt{\frac{I}{\mu}} = \sqrt{\frac{1.456 \times 10^{-46}}{1.138 \times 10^{-26}}} = 0.1131 nm$$

5) *Calculate the reduced mass in kg of HCl molecule. Given mass of H-atom=1 amu. Cl atom=35amu; 1amu=1.67x10^{-27}kg*

Mass of H –atom m_1=1 amu
Mass of Cl--atom m_2=35 amu

$$\mu = \frac{m_1 m_2}{(m_1 + m_2)}$$

$$= \frac{1 \times 35}{1 + 35} = \frac{35}{36} = 0.9722 amu$$

$$\mu = 0.9722 \times 1.67 \times 10^{-27} kg = 1.6235 \times 10^{-27} kg$$

6) *Reduced mass of CO molecule is 11.38x10⁻²⁷kg.If mass of oxygen atom is 26.56x10⁻²⁷kg.Calculate the mass of carbon atom.*

   Mass of C –atom m_1=?
   Mass of O--atom m_2=26.56x10⁻²⁷kg
   Reduced mass of CO molecule is μ =11.38x10⁻²⁷

$$\mu = \frac{m_1 m_2}{(m_1 + m_2)}$$

$$m_1 + m_2 = \frac{m_1 \times m_2}{\mu}$$

$$m_1 = \frac{m_1 \times m_2}{\mu} - m_2$$

$$(m_1 - \frac{m_1 \times m_2}{\mu}) = -m_2$$

$$m_1(1 - \frac{26.56 \times 10^{-27}}{11.38 \times 10^{-27}}) = -26.58 \times 10^{-27}$$

$$m_1(\frac{11.38 \times 10^{-27} - 26.56 \times 10^{-27}}{11.38 \times 10^{-27}}) = -26.58 \times 10^{-27}$$

$$m_1(-\frac{15.18 \times 10^{-27}}{11.38 \times 10^{-27}}) = -26.58 \times 10^{-27}$$

$$m_1(-1.3339 \times 10^{-27}) = -26.58 \times 10^{-27}$$

$$m_1 = -\frac{26.58 \times 10^{-27}}{-1.3339 \times 10^{-27}}$$

$$m_1 = 19.926 \times 10^{-27}$$

7) *Calculate inter atomic distance of a molecule*
   Given
   M.I of the molecule I=1.38x10⁻⁴⁷kgm²
   Reduced mass the molecule μ=1.58x10⁻²⁷kg

$$r = \sqrt{\frac{I}{\mu}} = \sqrt{\frac{1.38 \times 10^{-47}}{1.58 \times 10^{-27}}} = \sqrt{0.8734 \times 10^{-20}} = 0.934\ 5\ x\ 10^{-10}$$

8) *Calculate the rotational constant for HCl molecule, if its moment of inertia is 2.7x10⁻⁴⁷kgm².Also Calculate the moment of inertia of HF molecule, if its rotational constant is 2025m⁻¹.*
   Given h=6.63x10⁻³⁴Js
   Moment of inertia of HCl molecule is I=2.7x10⁻⁴⁷kgm²
   Rotational constant is B= 2025m⁻¹

$$B = \frac{h}{8\pi^2 Ic}$$

$$B = \frac{6.63 \times 10^{-34}}{8 \times (3.142)^2 \times 3 \times 10^8 \times 2.7 \times 10^{-47}}$$

$$B = \frac{6.63 \times 10^{-34}}{8 \times 9.872 \times 3 \times 10^8 \times 2.7 \times 10^{-47}}$$

$$B = \frac{6.63 \times 10^{-34}}{639.705 \times 10^{-39}}$$

$$B = \frac{6.63 \times 10^5}{639.705}$$

$$B = 0.01036 \times 10^5$$

$$B = 1.036 \times 10^3 \, m^{-1}$$

The moment of inertia of HF molecule I=?
Rotational constant is B= 2025m⁻¹

$$B = \frac{h}{8\pi^2 Ic}$$

$$I = \frac{h}{8\pi^2 Bc}$$

$$I = \frac{6.63 \times 10^{-34}}{8 \times (3.142)^2 \times 3 \times 10^8 \times 2025}$$

$$I = \frac{6.63 \times 10^{-34}}{8 \times 9.872 \times 3 \times 10^8 \times 2025}$$

$$I = \frac{6.63 \times 10^{-34}}{4797792 \times 10^8}$$

$$I = 0.0000138 \times 10^{-42}$$

$$I = 1.38 \times 10^{-47} \, kg/m^2$$

9) Calculate the minimum rotational energy for CO molecule.
* Given Reduced mass of CO molecule μ =11.38x10⁻²⁷kg*
*   Bond length r=0.15nm*
*   h=6.625x10⁻³⁴Js*

On the wave number scale, the frequency difference between two successive lines in the pure rotational spectrum of diatomic molecule is given by

$$\Delta \bar{v} = \frac{\hbar}{2\pi Ic}$$

*   The rotational spectrum can be recorded. The absorption lines are equispaced. The separation between adjacent lines is identified as 2B.*

$$\Delta \bar{v} = 2B = \frac{\hbar}{2\pi Ic}$$

$$B = \frac{h}{4\pi^2 Ic} \qquad \left(\because \hbar = \frac{h}{2\pi} \right)$$

By measuring $\Delta\bar{v}$, the rotational constant B can be calculated. From this the momentum of inertia of the molecule I can be calculated.

$\mu=IR^2$, μ is the reduced mass of the molecule and r the bond length. Knowing the value of μ, we can calculate R.

Experimental investigation have shown that the successive lines in the far infra-red spectrum are not evenly spaced, but that the frequency separation decreases slightly with increasing value of J.

It shows that bond length (R) increases with J. Therefore, our assumption that the molecule is a rigid rotator is false. In fact, all bonds are elastic to some extent. More quickly a diatomic molecule rotates; the greater is the centrifugal force tending to move the atom apart.

Shri VijayMahantesh Arts, Science & Commerce College, ILKAL – 587125.

IQAC REPORT 2023-24

Library and Information Center

Sl.NO	Department Documents
1	Time Table
2	Library Asset
3	N List
4	E –Lib AMC
5	Tran sanction report
6	Induction Programme
7	One day workshop and Book Exhibition
8	Donated Book Exibition
9	Stock list
10	Library Advisory Committee List
11	Best Reader Award
12	Faculty Profile

LIBRARY

Time Table – 2023-24

Monday to Friday	9.00AM TO 5.30 PM
Saturday	10.AM TO 2.00 PM
During examination time:	9.AM TO 8.00PM

PRINCIPAL
S.V.M. Arts, Science and
Commerce College, ILKAL

Bhuvaneshwari Kumbar, M.Lib.
Librarian

LIBRARY

Asset 2023-24

Sl.NO	Name	Quantity
1	Number of Books Purchased	58,949
2	Number of journals subscribed	Nil
3	Number of Magazines subscribed	Nil
4	Number of Newspapers	10
5	E-Resources	N-List (Database)
7	Transaction of books per year	9311
8	Number of students browsing Internet	20/day
9	Issued Id Cards to students of UG and PG	500
10	Conducted Induction programme for students	200
11	Donated books have been catalogued	1050
12	New question papers are organized according to class wise	yes

Bhuvaneshwari Kumbar, MLISc
Librarian
SVM Arts, Science & Commerce College
ILKAL – 587125

PRINCIPAL
S V M Arts, Science and
Commerce College ILKAL

National Library and Information Services Infrastructure of Scholarly Content (N-LIST)

Invoice

Ref No: INFCN-LIST/2023/1156

Date: 2023-02-23
Invoice No: NLIST-23-232591
College GST No: Not Applicable
College GST State Code: NA [?]

Name and Address of Subscriber

To :
The Principal
S.V.M. Arts, Science & Commerce College
Manjula Gangotri
Ilkal
Karnataka : 587125

SR. No.	Membership Fee	Period of Membership	Amount in Rs
1	N-LIST Annual Membership Fee	April 2023 to March 2024	5,900.00
		CGST @ 0.00%	0.00
		SGST @ 0.00%	0.00
		IGST @ 18.00%	900.00
		Total	5,900.00

Rupees Five Thousand Nine Hundred Only

GSTIN: 24AAATI1460J1ZS
TDS is not applicable on annual membership fee

Sincerely Yours

Ashok Kumar Rai
Scientist-E(CS)

------------------------------- Cut Here -------------------------------

N-LIST MEMBERSHIP FEE RECEIPT

Receipt Date: 2023-02-23

Receipt No: 3519

Received with thanks from S.V.M. Arts, Science & Commerce College, Ilkal, Karnataka
A sum of Rupees Five Thousand Nine Hundred Only by Cheque No/DD No/RTGS No./XXGP00368070307
Dated 2023-02-23 drawn on AXIS BANK Payable at Gandhinagar Gujarat towards N-LIST Annual
Membership Fee for the financial year 2023-24.

Rs. 5900

Sincerely Yours

Administrative Officer(Finance)

This receipt is valid on realization of Cheque and DD
Subject to Gandhinagar(Gujarat) Jurisdiction only
Online Printed Date : 2023-10-23 05:20:26
INFLIBNET Ref No : INFCN-LIST/2023/1156
GSTIN: 24AAATI1460J1ZS

PRINCIPAL
S V M Arts Science and
Commerce College, ILKAL

Username	Month	Year	Pages
S.V.M.Arts Science and Commerce College ilkal-587125			
N-List Statastics for the Acedamic Year 2023-24			
bhimaravwalikar@gmail.com	7	2021	12
bhimaravwalikar@gmail.com	7	2021	7
bhimaravwalikar@gmail.com	8	2021	7
biradarsb@gmail.com	1	2021	1
mvaramani@gmail.com	1	2021	1
prashant.ekbote23@gmail.com	1	2021	1
biradarsb@gmail.com	12	2020	1
mvaramani@gmail.com	12	2020	5
renuka.16@gmail.com	9	2020	6
bsmath_2012@rediffmail.com	2	2019	17
naikbharati133@gmail.com	10	2019	68
renuka.16@gmail.com	2	2019	84
renuka.16@gmail.com	3	2019	66
renuka.16@gmail.com	5	2019	24
bsmath_2012@rediffmail.com	7	2018	8
mvaramani@gmail.com	1	2018	2
biradarsb@gmail.com	9	2017	167
biradarsb@gmail.com	10	2017	2
dr.spaminagad@gmail.com	9	2017	3
drpskilk@gmail.com	3	2017	3
ggg979@gmail.com	4	2017	33
kmkilk68@gmail.com	4	2017	2
ksgsvmilk@gmail.com	9	2017	15
kurnal.avi@gmail.com	2	2017	29
kurnal.ravi@gmail.com	9	2017	1
mallaiah62@gmail.com	4	2017	7
mallappamali60@gmail.com	4	2017	4
mvaramani@gmail.com	9	2017	31
naikbharati133@gmail.com	4	2017	147
naikbharati133@gmail.com	10	2017	1
prashant.ekbote23@gmail.com	9	2017	131
prashant.ekbote23@gmail.com	10	2017	11
renuka.16@gmail.com	3	2017	61
renuka.16@gmail.com	9	2017	100
santosh.vatar1340@gmail.com	2	2017	52
santosh.vatar1340@gmail.com	9	2017	222
santosh.vatar1340@gmail.com	10	2017	1
santosh.vatar1340@gmail.com	11	2017	1
sathyanandas193@gmail.com	4	2017	4
ssawatiilkal@gmail.com	4	2017	2
ssawatiilkal@gmail.com	9	2017	84
subashkambi@gmail.com	9	2017	13
renuka.16@gmail.com	8	2016	189
renuka.16@gmail.com	9	2016	97
renuka.16@gmail.com	11	2016	22
renuka.16@gmail.com	12	2016	47

Bhuvaneshwari Kumbar, M.LISe
Librarian
SVM Arts, Science & Commerce College
ILKAL - ...

PRINCIPAL
S.V.M. Arts Science and
Commerce College, ILKAL

AARGEES
SOFTWARES

To,

The Principal
S V M Arts Science Degree College
Ilkal

No:46

Date:09-11-2023

RECEIPT

Dear Sir / Madam

Received with thanks, the sum of Rs.6500 (Rupees SIX THOUSAND FIVE HUNDRED ONLY) towards the payment of Invoice No.171 Dated 22-08-2023

Product   : ELIB
Academic Year : 23-24

Payment Details

Cheque No: NEFT
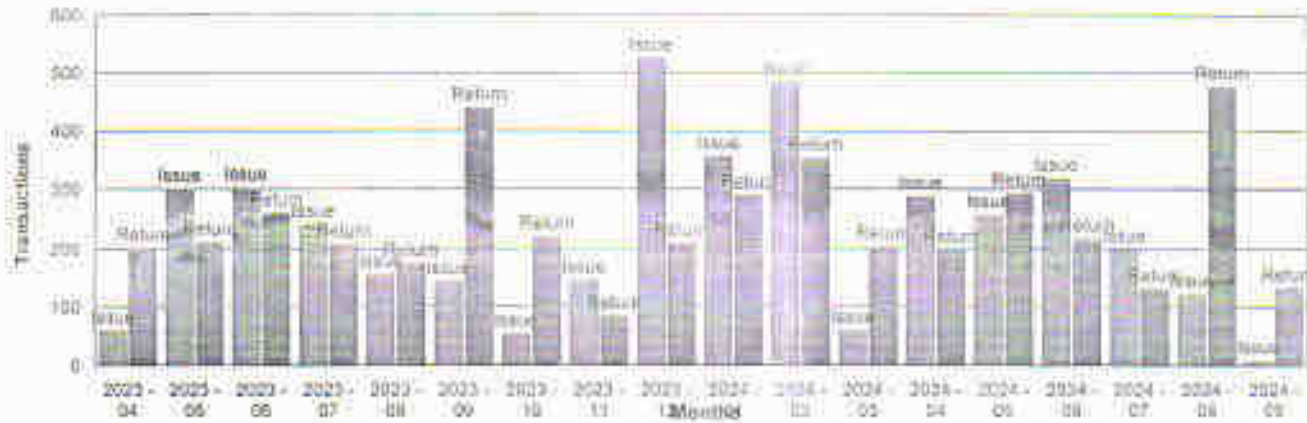Cheque Dated: 09-11-2023
Bank Name: Axis Bank

Thanking you

For AARGEES

PRINCIPAL
S V M Arts Science and
Commerce College, ILKAL

Month wise Transaction Summary

Month	Staff			Student			Total
	Issue	Return	Total	Issue	Return	Total	
2023 - 04	3	5	8	56	195	251	259
2023 - 05	19	1	20	281	210	491	511
2023 - 06	17	12	29	285	247	532	561
2023 - 07	15	13	28	225	194	419	447
2023 - 08	15	11	26	141	164	305	331
2023 - 09	1	22	23	143	418	561	584
2023 - 10	8	3	11	45	217	262	273
2023 - 11	6	18	24	140	66	206	230
2023 - 12	16	13	29	510	195	705	734
2024 - 01	11	10	21	345	280	625	646
2024 - 02	39	80	119	446	274	720	839
2024 - 03	11	10	21	48	193	241	262
2024 - 04	168	29	197	119	168	287	484
2024 - 05	18	28	46	237	264	501	547
2024 - 06	35	6	41	283	210	493	534
2024 - 07	17	14	31	181	117	298	329
2024 - 08	14	8	22	108	469	577	599
2024 - 09	3	12	15	5	121	126	141
Total	416	295	711	3598	4002	7600	8311

Bhuvaneshwari Kumbar, M.LIS₂
Librarian
SVM Arts S....

PRINCIPAL
S.V.M Arts Science and
Commerce College, ILKAL

1
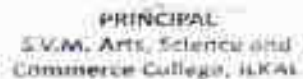
Induction programme Report 2023-24

SL NO	Details of the Programme	
1	Nature of Programme	Induction Programme
2	Organizing Dept. / Unit / Cell / in Collaboration	Library
3	**Level of Programme** Regional/ State/National/International/College	College
4	Chief Guest	Dr.S.S. Awati
5	Name of Convener	Smt. B.B. Kumbar
6	Name of the Organizing Secretary	Smt. Renuka Giritimmannavar
7	Events Organized	Induction Programme for Ist Year BA, B.Sc & B.Com
8	Date of the Programme organized	20-11-2023 to 22-11-2023
9	Number of Participant	347
10	Enclosures i. Geo tag Photos	Enclosed

Convener
Bhuvaneshwari Kumbar, M.LI&
Librarian
SVM Arts, Science & Commerce College
ILKAL - 587 125

COORDINATOR
IQAC

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Induction Programme Report Photos 2023-24

SVMVVS'S
S.V.M ARTS, SCIENCE AND COMMERCE COLLEGE
ILKAL-587 125

Coaching Classes for
Entry into Services for SC/ST/OBC and Minorities

BOOKS LIST

S.NO	Title of the book	Author
01	Concise Geography	Majid Hussain
02	General Knowledge 2012 135 A	Reddy & Laxmikant
03	General Awareness & Current Affairs	Reddy & Laxmikant
04	Wizard Current Affairs	Jojo Mathew
05	Science and Technology V	Jojo Mathew
06	Essential English Grammar	Raymond Murphy
07	ಸಾಮಾನ್ಯ ಅಧ್ಯಯನ ಭಾಗ –5	ಪ್ರ್ಪಮಾಲಿ ಮುದ್ದಣ್ಣ
08	ಸಾಮಾನ್ಯ ಅಧ್ಯಯನ ಭಾಗ –6	ಪ್ರ್ಪಮಾಲಿ ಮುದ್ದಣ್ಣ
09	ಸಾಮಾನ್ಯ ಅಧ್ಯಯನ ಭಾಗ –3	ಪ್ರ್ಪಮಾಲಿ ಮುದ್ದಣ್ಣ
10	ಸಾಮಾನ್ಯ ಅಧ್ಯಯನ ಭಾಗ –2	ಪ್ರ್ಪಮಾಲಿ ಮುದ್ದಣ್ಣ
11	ಸಾಮಾನ್ಯ ಅಧ್ಯಯನ ಭಾಗ –1	ಪ್ರ್ಪಮಾಲಿ ಮುದ್ದಣ್ಣ
12	ಸಾಮಾನ್ಯ ಅಧ್ಯಯನ ಭಾಗ –4	ಪ್ರ್ಪಮಾಲಿ ಮುದ್ದಣ್ಣ
13	Human Geography	Majid Husssain
14	"ಭಾರತದ ಸ್ವಾತಂತ್ರ ಹೋರಾಟ"	ಡಾ॥ ಕೆ ಸದಾಶಿವ
15	Freedom Struggle N(70)	Bipin Chandra
16	History of Modern India 310A	Bipin Chandra
17	India Comprehensive Geography A	D.R.Khullur
18	A Concise History of Karnataka A	Dr.Suryanath
19	Indian History 550k	Krishna Reddy
20	Bank Probationary office management Trainees	Bright

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S.V.M Arts Science and
Commerce College, ILKAL

S.No	Title of the book	Author
76	Indian Administration	Awasti & Awasti
77	Reasoning Verbal & Non Verbal	B.S.Sijawali & Indu Sijawali
78	India's economic development since 1947	Uma Kapila
79	ಎಸ್ ಡಿ ಎ ಮತ್ತು ಎಸ್ ಡಿ ಎ	
80	Classic Year book 2011	ಸ್ಪರ್ಧಾ ಸ್ಫೂರ್ತಿ
81	Quantitative Aptitude	P.Gupta
82	ಕರ್ನಾಟಕದ ಸಂಕ್ಷಿಪ್ತ ಇತಿಹಾಸ	ಡಾ॥ ಸೂರ್ಯನಾಥ ಕಾಮತ
83	ಭಾರತದ ಆರ್ಥಿಕ ವ್ಯವಸ್ಥೆ	
84	ಮಿಲೆನಿಮ ಸಾಮಾನ್ಯ ಆಧ್ಯಯನ	
85	ಸಮಗ್ರ ಗದ್ಯ ಸಂಪತ್ತ	ಡಾ.ಜೆ.ಎಸ್.ಶಿವರುದ್ರಪ್ಪ
86	ಗ್ರಾಮೀಣ ಅಭಿವೃದ್ಧಿ ಸಹಾಯಕ	
87	ಯೋಜನಾ 6 ತಿಂಗಳು	ನೀತಾ ಪ್ರಸಾದ
88	ಸಾಮಾನ್ಯ ಅರ್ಥಶಾಸ್ತ್ರ	ಲಕ್ಷ್ಮಣ ರೆಡ್ಡಿ
89	ಸಾಮಾನ್ಯ ಭೂಗೋಳ ಶಾಸ್ತ್ರ	
90	Social Cultural Anthropology	U.S.Mishra
91	Anthropological Thought	Makan Jha
92	General Studies Manual	Dr.Tarachand
93	Social Anthropology	S.L.Doshi
94	Geography for state CS & other Comp.Exam	Singh
95	Civil Services Aptitude test	J.K.Chopra
96	Physical Geography Vol-I	Sanjaykumar
97	Anthropology the study of man	Indrani
98	Applied Anthropology in India	Dr.M.P.Vidyarthi
99	Bank probationary officers examination	Unique Publishers
100	ಕರ್ನಾಟಕ ಅರ್ಥಿಕ	ಡಾ॥ಸೋಮಶೇಖರ
101	ಸಾಮಾನ್ಯ ಅರ್ಥಶಾಸ್ತ್ರ	ಡಾ॥ಸೋಮಶೇಖರ
102	ಜಗತ್ತಿನ ಪ್ರಮುಖ ರಾಷ್ಟ್ರಗಳ ಸಂವಿಧಾನ ಮತ್ತು ಸರ್ಕಾರಗಳು	
103	Spoken English	ದಯಾನಂದ ಹಲ್ಲಮುರಿ
104	ಮಾತ್ರ ಭೋಜಿಮ ಇಯರ ಬುಕ್	
105	Medieval India	NCERT

S.No	Title of the book	Author
807	ಭೂತ ಕೃಷ್ಣ ವಿಹ್ವಲಿಗಳು	
808	ಅಮ್ಮ ಹೇಳಿದ ಎಂಟು ಸುಳ್ಳುಗಳು	
809	ಅಕ್ಕ ಅಂದ್ರೆ ಅಕ್ಕಾ	
810	ಬೆಮ್ಮೆಲು ಕಲಿಯಿರಿ	ಸ್ವಾಮಿ ಜಗದಾತ್ಮಾನಂದ
811	ಬೌದ್ಧಿಕ ಸಾಮರ್ಥ್ಯ	
812	Computer for Competitive Exams	
813		
814	Indian Economy	Gaurav Datt
815	Economics	Paul & Samuel
816	Environment Geography	Savinder Singh
817	India 2014	
818	India a Comprehensive Geography	Dr.Khullur
819		
820	ಕೆ.ಎ.ಎಸ್.2013 ಪೂರ್ವಭಾವಿ ಪೇಪರ್-2	ಎನ್.ಪರೀಶ
821	ಕೆ.ಎಸ್.ಆರ್.ಟಿ.ಸಿ ಪರೀಕ್ಷಾ ಕೈಪಿಡಿ	ರಾಘವೇಂದ್ರ
822	ನೀನು ಸತ್ತರೆ ಆಳುವವರು ಯಾರು?	ರಾಜನ್ ಶರ್ಮಾ
823	ಪೋಲೀಸ್ ಕಾನ್ಸ್ಟೇಬಲ್ ನೇಮಕಾತಿಗಾಗಿ ಪರೀಕ್ಷಾ ಕೈಪಿಡಿ	ಎನ್.ಪರೀಶ
824	ಮೋಸ್ಟರ್ ಸಾರ್ಟಿಂಗ ಅಸಿಸ್ಟಂಟ್ ನೇಮಕಾತಿ ಪರೀಕ್ಷಾ ಮಸ್ಟರ್	
825	ಪ್ರಚಲಿತ ಘಟನೆಗಳು ಕೆ.ಎ.ಎಸ್./ ಯು.ಪಿ.ಸಿ./ ಪಿ.ಎಸ್./ ಸಬ್ ಇನ್ಸ ಪೆಕ್ಟರ್	
826	ರಹಸ್ಯ ಪತ್ರಗಳು	ರಾಜನ್ ಶರ್ಮಾ
827	ಎಸ್.ಎಂ.ಪಿ ಗೋಲ್ಡ ಪೋಲೀಸ ಸಬ್ ಇನ್ ಸ್ಪೆಕ್ಟರ ನೇಮಕಾತಿಯ ಕೈಪಿಡಿ	ಎನ್.ಬಾಲರಾಜು
828	SSC Combind Grodvate revel Examination	
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832	ವಿಜಯಕ್ಕೆ ಐದು ಮೆಟ್ಟಲುಗಳು	ಯಾಂಡಮೂರಿ ವೀರೇಂದ್ರನಾಥ

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S.No	Title of the book	Author
01	Millenium Samanya Adyadan	HRK
02	ಜೆನಿಯಸ್ ಪದವಿ ಮಟ್ಟದ ಪ್ರಶ್ನೋತ್ತರ ಕೈಪಿಡಿ ಗ್ರೂಪ್-C &FDA	ವಿನೋದ ಕಡಕೋಳ
03	ಜೆನಿಯಸ್ ಹಬ್ ಇಯರ್ ಬುಕ್-1 2020 ಜನೇವರಿ-ಜುಲೈ	ವಿನೋದ ಕಡಕೋಳ
04	Verbal and Non Verbal Reasoning	Dr. R.S.Agraval
05	ರಾಜ್ಯಶಾಸ್ತ್ರ ಪ್ರಶ್ನೋತ್ತರ KSET, NET ,UGC	ಡಾ.ಕೆ.ಜೆ.ಸುರೇಶ
06	ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು	ವಿನಾಯಕ ಕುಲಕರ್ಣಿ
07	ರಾಜ್ಯಶಾಸ್ತ್ರ (IAS, KAS,NET,SLET,BA & MA)	ಪ್ರೊ.ಎನ್ .ಹಾಲಪ್ಪ
08	KAR-TET Question Bank	Sunstar Publishers
09	Objective Genaral English	Dr.R.S.Agraval
10	ಜಿಗುರು	ಬಾಬು ರೆಡ್ಡಿ
11	K.P.S.C.Group C ತಾಂತ್ರಿಕೇತರ ಹುದ್ದೆಗಳಿಗಾಗಿ	ಸನ್ ಸ್ಟಾರ್ ಪಬ್ಲಿಕೇಶನ್
12	ಸಾರ್ವಜನಿಕ ಆಡಳಿತ KAS &IAS ಮುಖ್ಯ ಪರೀಕ್ಷೆಗಾಗಿ	ಪ್ರೊ.ಎನ್ .ಹಾಲಪ್ಪ
13	KPSC Group C ತಾಂತ್ರಿಕ ಮತ್ತು ತಾಂತ್ರಿಕೇತರ ಹುದ್ದೆಗಳ ನೇಮಕಾತಿ	ಹುಸೇನಪ್ಪ ನಾಯಕ
14	ಮಾನಸಿಕ ಸಾಮರ್ಥ್ಯ	ನಿಂಗಪ್ಪ.ಎ.ಎಚ್
15	ಮಾನಸಿಕ ಸಾಮರ್ಥ್ಯ	ನಿಂಗಪ್ಪ.ಎ.ಎಚ್
16	ಮಾನಸಿಕ ಸಾಮರ್ಥ್ಯ	ಸಣ್ಣ ತಿಮ್ಮಯ್ಯ
17	PSI ನೇಮಕಾತಿ ಪ್ರಶ್ನೋತ್ತರ ಮಾಲಿಕೆ	ಡಾ.ಕೆ.ಎಂ.ಸುರೇಶ
18	PSI ನೇಮಕಾತಿ ಪ್ರಶ್ನೋತ್ತರ ಮಾಲಿಕೆ	ಡಾ.ಕೆ.ಎಂ.ಸುರೇಶ
19	KAS ಪೂರ್ವಭಾವಿ ಪರೀಕ್ಷೆಗಾಗಿ ಸಿದ್ಧತೆಗಾಗಿ	SMV ಪಬ್ಲಿಕೇಶನ್
20	ಸಾಮನ್ಯ ಆಧ್ಯಯನ KAS,PSI,PDO	ವಾಯ್.ಎಮ್.ಮಾರ್ಗ
21	KAS General Studies	A.Subramani
22	ಜೆನಿಯಸ್ IAS ಪ್ರಶ್ನೋತ್ತರ ಕೈಪಿಡಿ 2021-22	ವಿನೋದ ಕಡಕೋಳ
23	ಪ್ರಾಕೃತಿಕ ಭೂಗೋಳಶಾಸ್ತ್ರದ ಪರಿಚಯ	ಡಾ.ರಂಗನಾಥ
24	ಮಾನವ ಭೂಗೋಳಶಾಸ್ತ್ರದ ಮೂಲ ತತ್ವಗಳು	ಡಾ.ರಂಗನಾಥ

25	ಭಾರತದ ಭೂಗೋಳಶಾಸ್ತ್ರ	ಡಾ.ರಂಗನಾಥ
26	ಪ್ರಪಂಚದ ಪ್ರಾದೇಶಿಕ ಭೂಗೋಳಶಾಸ್ತ್ರ	ಡಾ.ರಂಗನಾಥ
27	ಕರ್ನಾಟಕ ಪ್ರಾದೇಶಿಕ ಭೂಗೋಳಶಾಸ್ತ್ರ	ಡಾ.ರಂಗನಾಥ
28	ಪ್ರಥಮ ಮತ್ತು ದ್ವಿತೀಯ ಪಿ.ಯು.ಸಿ. ಭೂಇತಿಹಾಸ	ಶ್ರೀಕಾಂತ್. ಹೆಚ್
29	ಪ್ರಥಮ ಮತ್ತು ದ್ವಿತೀಯ ಪಿ.ಯು.ಸಿ. ಭೂಇತಿಹಾಸ	ಶ್ರೀಕಾಂತ್.ಹೆಚ್
30	ಕಂಪ್ಯೂಟರ್ ಜ್ಞಾನ	ಕೆ.ಎಂ.ಮುಲ್ಲಾ
31	ನೈಘಾಂ ಅಬ್ಬಾಸ್	ಕೆ.ಎಂ.ಮುಲ್ಲಾ
32	ವಸ್ತು ನಿಷ್ಠ ಭೂಗೋಳಶಾಸ್ತ್ರ	ಕೆ.ಎಂ.ಮುಲ್ಲಾ
33	ವಸ್ತು ನಿಷ್ಠ ಅರ್ಥ ಶಾಸ್ತ್ರ	ಕೆ.ಎಂ.ಮುಲ್ಲಾ
34	ಭಾರತದ ಸಂವಿಧಾನ	ಕೆ.ಎಂ.ಮುಲ್ಲಾ
35	ವಸ್ತು ನಿಷ್ಠ ಭೂಇತಿಹಾಸ	ಕೆ.ಎಂ.ಮುಲ್ಲಾ
36	ಮೇರು ದ್ವಿತೀಯ ದರ್ಜೆ ಸಹಾಯಕರ ನೇಮಕಾತಿ ಪರೀಕ್ಷೆ	ಡಾ.ಮೇವಿ ರುದ್ರೇಶ
37	ಮೇರು ದ್ವಿತೀಯ ದರ್ಜೆ ಸಹಾಯಕರ ನೇಮಕಾತಿ ಪರೀಕ್ಷೆ	ಡಾ.ಮೇವಿ ರುದ್ರೇಶ
38	ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ (ಹಳಗನ್ನಡ, ನಡುಗನ್ನಡ,ಹೊಸಗನ್ನಡ)	ಡಾ.ಮೇವಿ.ರುದ್ರೇಶ
39	ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ (ಹಳಗನ್ನಡ,ನಡುಗನ್ನಡ,ಹೊಸಗನ್ನಡ)	ಡಾ.ಮೇವಿ.ರುದ್ರೇಶ
40	FDA & SDA Question Bank	ಡಾ.ಕೆ.ಎಂ.ಸುರೇಶ

ಶ್ರೀ ವಿಜಯ ಮಹಾಂತೇಶ ಕಲೆ,ವಿಜ್ಞಾನ ಹಾಗೂ ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ, ಇಲಕಲ್ಲ

2022-23 ನೇ ಸಾಲಿನ ಮಹಾವಿದ್ಯಾಲಯದ ಪ್ರತಿಭಾವಂತ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಬಹುಮಾನಗಳು ಕೊಡಮಾಡಿದ ನಗದು ಪುರಸ್ಕಾರಗಳು.

	01) ಪರಮ ಪೂಜ್ಯ ಶ್ರೀ ಮ.ವಿ.ಪ್ರ. ಆಂಗ್ಲೇಶ್ವ ಹಾ.ಮಹಾಂತ ಸ್ವಾಮಿಗಳವರು ಚಾಲ್ತಿಗೆ ತಂದಿರುವ ಇಲಕಲ್ಲ ಬುವರ ಅತಿಶ್ರೇಷ್ಠವಾದ ... ಪುರಸ್ಕಾರವಾಗಿ ದಯಪಾಲಿಸಿದ ಪರಿಶಿಷ್ಟ ಜಾತಿ,ಪರಿಶಿಷ್ಟ ಪಂಗಡದ ಪ್ರತಿಭಾವಂತ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ನಗದು ಪುರಸ್ಕಾರಗಳು.					ನಗದು ಪುರಸ್ಕಾರಗಳು	ಸಹಿ
1	ಮಂಜುನಾಥ ಹರಿಜನ	ಚ.ಎ-3	3700	3012	81.40%		
2	ಐಶ್ವರ್ಯ ಕಟ್ಟೆಮನಿ	ಚ.ಎಸ್ಸಿ-3	900	773	81.36%		
3	ಐಶ್ವರ್ಯ ಬೇವಿನಕಟ್ಟಿ	ಚ.ಕಾಂ-3	700	605	86.1%		
	02). ಪರಮ ಪೂಜ್ಯ ಶ್ರೀಮನ್ ಮಹಾರಾಜ ನಿರಂಜನ ಜಗದ್ಗುರು ಆಂಗ್ಲೇಶ್ವ ಹಾ... ಗಂಗಾಧರ ... ಮಹಾಸ್ವಾಮಿಗಳವರು ಮೂಡಲಸಿರಮಠ ... ಅವರ ಅತಿಶ್ರೇಷ್ಠವಾದ ... ದಯಪಾಲಿಸಿದ ... ಬಿ.ಎಸ್.ಸಿ. 3 ರ ... ಪ್ರಥಮ ಸ್ಥಾನ ...						
1	ಅಖಿಲಾ ಅಮೀನಗಡ	ಬ.ಎಸ್ಸಿ-3	4900	4256	86.85%		
	03) ಶ್ರೀಯುತ ... ಅವರು ಪ್ರತಿಭಾವಂತ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಕೊಡಮಾಡಿದ ನಗದು ಪುರಸ್ಕಾರ.						
1	ಮಂಜುನಾಥ ಹರಿಜನ	ಚ.ಎ-3	3700	3012	81.40%		
2	ಅಖಿಲಾ ಅಮೀನಗಡ	ಬ.ಎಸ್ಸಿ-3	4900	4256	86.85%		
3	ಪೂಜಾ ಕಬ್ಬರಿ	ಬ.ಕಾಂ-2	4400	3967	90.1%		
	04). ಬಿ.ಎಸ್.ಆರ್ ... ಅವರ ಸ್ಮರಣಾರ್ಥ ಅವರ ... ಶ್ರೀ ಮಹೇಂದ್ರ ಎಸ್. ... ಅವರು ಕೊಡಮಾಡಿದ ಪ್ರತಿಭಾ ... ಪುರಸ್ಕಾರ ...						
1	ನಾಗರತ್ನ ಹೂಲಿನಬಾವಿ	ಚ.ಎ-2	... 10 ...				

			ಅಂತೆ ವಿ.ವಿ.ಗೆ ಅಯ್ಯ.			

05) ವಿ.ಜೆ.ಎಂ. ಹೆಬ್ಬಾಕೆಟ್ಟೂರ ಬಹುಮಾನ –ಶ್ರೀಮತಿ ಕರಿಬಸಮ್ಮ ಕೆೋಂ. ಮಹಾಂತೆಶ್ಷ ಹೆಬ್ಬಾಕೆಟ್ಟೂರ ಬಿ. ಎ. 4 ನೇ ಸೆಮ್ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಮೊದಲಬಾರ್ತವ ಪಡೆದವರಿಗೆ

1	ಸಹನಾ ಕಾಶೀನಾಥೆೆದೆಮೆರೆ	ಬಿ.ಎ -4	800	703	87.87%		S.V. K.

06) ಶ್ರೀಮತಿ ಕರಿಬಸಮ್ಮ ಮಹಾಂತೆಶ್ಷ ಹೆಬ್ಬಾಕೆಟ್ಟೂರ ಬಹುಮಾನ ಬಿ.ಎ. 8 ನೇ ಸೆಮ್. ಪರೀಕ್ಷೆಯಲ್ಲಿ ಮೊದಲಬಾರ್ತವ ಪಡೆದವರಿಗೆ

1	ಮಂಜುನಾಥ ಹರಿಜನ	ಬಿ.ಎ-8	3700	3012	81.40%		

07) ಶ್ರೀಯುತ ಎಲ್.ಜಿ. ಅರಸಿಶ್ಷ ಮ್ಯೂಚೇಜನ ಭಾಂಕ್ಲ್ಲ ಪಾಣಾಲಿ ಬ್ಯಾಂಕ್ ಇವರ ಬಹುಮಾನ ಬಿ. ಕಾಂ. ಭಾಗ 2ರ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಅತೀ ಹೆಚ್ಚು ಗುಣಗಳನ್ನು ಪಡೆದ ವಿದ್ಯಾರ್ಥಿಗೆ

1	ಜ್ಯೋಕ್ತಿ ಉಪ್ಪಳ	ಬಿ.ಕಾಂ- 4ನೇ ಸೆಮ್	700	634	90.57%		

08) ಶ್ರೀ ಶ್ಯಾಮಸುಂದರ ಕಡವಾ ಟ್ರಸ್ಟ್ ಉಸ್ತ್ವಮೆದಾರರು ಭಾಂಕ್ಲ್ಲ ಇವರ ಕೊಡಮಾಡಿದ ನಗದು ಬಹುಮಾನ ಬಿ. ಅವ್ಗನಾ ಶ್ಯಾಮಸುಂದರ ಕಡವಾ ಇವರ ಹೆಸರಿನಲ್ಲಿ ಬಿ.ಕಾಂ 4 ನೇ ಸೆಮ್. ಪ್ರಥಮಬಾರ್ತವ ಪಡೆದವರಿಗೆ.

1	ಚಿನ್ಮಯ ಗುನಾಳಕರ	ಬಿ.ಕಾಂ-4	700	632	90.28%		

09) ಬಿ. ಶಿವಶಂಗಪ್ಪ ಸ್ಡರ್ಪ ಪಡೆಸಲ್ಲ ಮಾಜಿ ಕಾಣಿಕಯ ಭಾವರ ಸ್ಮರಣಾರ್ಥ ಡಾ. ಎಂ.ಎಸ್. ಕಡಪಟ್ಟಿ ಅವರು ಕೊಡಮಾಡಿದ ಬಹುಮಾನ ಬಿ.ಎ-8 ನೇ ಸೆಮ್ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಇತಿಹಾಸ ಐಫ್ವಲ್ ವಿಷಯದಲ್ಲಿ ಅತೀ ಹೆಚ್ಚು ಗುಣಗಳನ್ನು ಪಡೆದ ಮಹಿಳಾ ವಿದ್ಯಾರ್ಥಿಗೆ

1	ಶ್ರೀದೇವಿ ಎ ಪಾಟೀಲ	ಬಿ.ಎ-8	200	187	93.50%		

10) ಶ್ರೀ ಎಚ್.ಎಸ್. ಪೂಜಾರಿಯವರ ಬಹುಮಾನ ಶ್ರೀ ಕೃಷ್ಣ ವಿಠ್ಠಲ ಭಾವರ ಹೆಸರಿನಲ್ಲಿ ಕೊಡಮಾಡಿದ ಬಹುಮಾನ ಬಿ.ಎ 2 ನೇ ಸೆಮ್ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ಗುಣಗಳನ್ನು ಪಡೆದವರಿಗೆ.

1	ಇಂದುಜಾ	ಬಿ.ಎ-2	800	703	87.87%		

11) ಶ್ರೀ ನಾರಾಯಣರಾವ ಕಾರ್ಗಿಲ ಅವರು ತಮ್ಮ ಮತ್ತು ವಿ. ಪ್ರಕಾಶಾರಾಯ ಕಾರ್ಗಿಲ ಭವರ ಹೆಸರಿನಲ್ಲಿ ಕೊಡಮಾಡಿದ ಬಹುಮಾನ – ಬಿ.ಕಾಂ 4 ನೇ ಸೆಮ್. ಪರೀಕ್ಷೆಯಲ್ಲಿ ಅತೀ ಹೆಚ್ಚು ಗುಣಗಳನ್ನು ಪಡೆದವರಿಗೆ							
1	ಚಿನ್ಮಯಿ ಗುನಾಳಕರ	ಬಿ.ಕಾಂ-4	700	632	90.28%		
1							
13) ಶ್ರೀ ಕೆ.ಎಸ್. ಮನ್ಯಾಪೂರ ಮತ್ತು ಶ್ರೀ ಎಲ್. ಎನ್. ಮನ್ಯಾಪೂರ ಸಹೋದರರು ಕೊಡಮಾಡಿದ ಬಹುಮಾನ – ಶ್ರೀಮತಿ ದ್ಯಾಮವ್ವ ಕಾಂ. ಸಂಗಪ್ಪ ಮನ್ಯಾಪೂರ ಭವರ ಹೆಸರಿನಲ್ಲಿ ಬಿ.ಎ. ಭಾಗ 4 ನೇ ಸೆಮ್. ಪರೀಕ್ಷೆಯಲ್ಲಿ ಮೊದಲಬಂದ್ಗಾದ ಪಾಸಬಂದವರಿಗೆ.							
1	ಸಹನಾ ಕಾಟಂಪೂರಮಠ	ಬಿ.ಎ.-4	800	703	87.87%		SV.K
14) ವಿ. ಸಂಗಪ್ಪ ಮೀರಭದ್ರಪ್ಪ ಮನ್ಯಾಪೂರ ಭವರ ಬಹುಮಾನ – ಬಿ. ಎಸ್ಸಿ 2 ನೇ ಸೆಮ್. ಪರೀಕ್ಷೆಯಲ್ಲಿ ಮೊದಲಬಂದ್ಗಾದ ಪಡೆದವರಿಗೆ.							
1	ಹರ್ಷಿತಾ ಕುಲಕರ್ಣಿ	ಬಿ.ಎಸ್ಸಿ 2	700	631	90.14%		
2	ಪಲ್ಲವಿ ಹಿರೇಮನಿ	ಬಿ.ಎಸ್ಸಿ 2	700	631	90.34%		
15) ಶ್ರೀ ಸಂಗಪ್ಪ ಮೀರಭದ್ರಪ್ಪ ಮನ್ಯಾಪೂರ ಭವರ ಬಹುಮಾನ ಬಿ.ಎಸ್ಸಿ 4 ನೇ ಸೆಮ್. ಪರೀಕ್ಷೆಯಲ್ಲಿ ಮೊದಲಬಂದ್ಗಾದ ಪಡೆದವರಿಗೆ							
1	ತಸ್ಮಿಯಾ ಬಾಮಣಿಕಟ್ಟಿ	ಬಿ.ಎಸ್ಸಿ-4	650	584	89.84%		
16) ಬಿ.ಎಂ. ಫಕಿರಪ್ಪನೆವರ ಸ್ಮರಣಾರ್ಥ- ೨೦.೨೦ ಸರಸ್ಪತಿನಿಲಯ ೨೦.ಜ ಪ್ರಥಮ ಲಾಲ ಬಹಾದ್ದೂರ್ ಎಜ್ಯುಗೇಶನ ಭವಯ ಕೊಡಮಾಡಿದ ಬಹುಮಾನ – ಬಿ. ಎ 1 ರಲ್ಲ ಕನ್ನಡ ಅಧನಲ್ ಬಹುಮಿಯಲ್ಲ ಅತಿ ಹೆಚ್ಚು ಗುಣಗಳನ್ನು ಪಡೆದ ವಿದ್ಯಾರ್ಥಿಗೆ							

| | ಬಸವರಾಜ | ಬಿ.ಎ-೨ | ೨೦೦ | ೧೬೭ | 63.5% | | |

(17) ಶ್ರೀ ಕೆ.ಎಸ್. ಗಾಂಬೇಗೇರ ಸಹ ಪ್ರಾಧ್ಯಪಕರು ಇವರು ಕೊಡಮಾಡಿದ ನಗದು ಪುರಸ್ಕಾರ ಭೌತಶಾಸ್ತ್ರ ವಿಷಯದಲ್ಲಿ 100 ಕ್ಕೆ 100 ಅಂಕಗಳನ್ನು ಪಡೆದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ

01	ಕು.ವೇದಾ ತಳಗೇರಿ	ಬಿ.ಎಸ್ಸಿ 6ನೇ ಸೆಮ್	100	100	100%		
02	ವೈಷ್ಣವಿ ಕುಲಕರ್ಣಿ	ಬಿ.ಎಸ್ಸಿ 5ನೇ ಸೆಮ್ 2024-25	100	100	100%		
03	ಭಾಗ್ಯಶ್ರೀ ನೇಕಾರ	ಬಿ.ಎಸ್ಸಿ 5ನೇ ಸೆಮ್ 2024-25	100	100	100%		

(18) ಶ್ರೀ .ಡಿ. ಎಸ್. ಕರಿಯಮ್ಮನ ಅವರು ಕೊಡಮಾಡಿದ ಬಹುಮಾನ- ಇವರ ಸಂದೆಯುವರಾದ ಸಿದ್ಧೇಶ್ವ ಶಿವಲಿಂಗಪ್ಪ ಬಿರಾದಾರ ಅವರ ಸ್ಮರಣಾರ್ಥ ಬಿ.ಎಸ್ಸಿ 4 ನೇ ಸೆಮ್. ರಸಾಯನಶಾಸ್ತ್ರ ವಿಷಯದಲ್ಲಿ ಪ್ರಥಮಸ್ಥಾನ ಪಡೆವವರಿಗೆ.

| 1 | ವಿದ್ಯಾಶ್ರೀ ಎ ಪಾಟೀಲ | ಬಿ.ಎಸ್ಸಿ-4 | ೧೦೦ | ೮೫ | 85% | | |

(19) ಬಿವರಣ ಮಾಸೂಕ್ತಿ ಸಂಗಮ್ಮ ಗುಂಡಪ್ಪ ಬಂಗಾರಿಯವರ ಸ್ಮರಣಾರ್ಥ ಕೊಡಮಾಡಿದ ಬಹುಮಾನ ಬಿ.ಎ 2 ನೇ ಸೆಮ್. ಅರ್ಥಶಾಸ್ತ್ರ ವಿಷಯದಲ್ಲಿ ಗರಿಷ್ಠ ಅಂಕ ಪಡೆವವರಿಗೆ ಶ್ರೀ. ಎಂ.ಡಿ. ಬಂಗಾರಿ ನೀಡಿದ ಬಹುಮಾನ ೧೦೦೦/-

| 1 | ಹುಸೇನಸಾಬ್ | ಬಿ.ಎ-2 | ೨೦೦ | ೧೭೩ | 86.5% | | |

(20) ಸಂಸ್ಕೃ ಮಹಾಂತಪ್ಪಗಳ ಹೆಸರಿನಲ್ಲಿ ಬಿ.ಡಾ.ಆರ್.ಎಂ.ಅನ್ನಪೂರ್ಣ ಇವರು ಕೊಡಮಾಡಿದ ಬಹುಮಾನ -ಬಿ.ಎ -6 ನೇ ಸೆಮ್. ಸಾಹಿತ್ಯದಲ್ಲಿ ಪಠ್ಯಕ ಕನ್ನಡ ವಿಷಯದಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ಅಂಕಗಳನ್ನು ಪಡೆದ ವಿದ್ಯಾರ್ಥಿ.

| 1 | ಅರುಣಕುಮಾರ | ಬಿ.ಎ-6 | ೨೦೦ | ೧೭೧ | 85.5% | | |

(21) ಶ್ರೀ ಗೋವಿಂದರಡ್ಡಿ ಅನಂತರಡ್ಡಿ ಇವರು ಕೊಡಮಾಡಿದ ನಗದು ಪುರಸ್ಕಾರ -ಬಿ.ಎಸ್ಸಿ ಅಂತಿಮ ವರ್ಷದಲ್ಲಿ ಭೌತಶಾಸ್ತ್ರ ವಿಷಯದಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ಅಂಕಗಳನ್ನು ಪಡೆದು ಪಾಸಾದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ.

ಕು.ವೇದಾ ತಳಗೇರಿ	ಬಿ.ಎಸ್ಸಿ.6ನೇ ಸೆಮ್	100	100	100%		

22) ಶ್ರೀ. ಎಸ್.ಆರ್. ಕೆಟ್ಟ ಪ್ರಾಧ್ಯಾಪಕ ವಿಷಯದ ಉಪನ್ಯಾಸಕರ ಭವನ ಬಹುಮಾನ – ಅವರ ತಂದೆಯವರಾದ ಶ್ರೀಯುತ ರಾಮಣ್ಣ ಕೆಟ್ಟ ಭವನ ಹೆಸರಿನಲ್ಲಿ ಬಹುಮಾನ ಇಎಸ್ಸಿ ಭಾಗ ೨ರ ಪ್ರಾಣಿಶಾಸ್ತ್ರ ಐಚ್ಛಿಕ ವಿಷಯದಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ಅಂಕಗಳನ್ನು ಪಡೆದು.

ತೇಸ್ಮಿತಾ ಭಾವಿಕಟ್ಟಿ	ಇಎಸ್ಸಿ-4	100	92	92%		

23) ಶ್ರೀ. ಸಿ.ಸಿ. ಹೊಜಬಾಳ ಅವರ ಬಹುಮಾನ – ಐ.ಎ. ಅಂತಿಮ ವರ್ಷದಲ್ಲಿ ಇಂಗ್ಲಿಷ್ ಐಚ್ಛಿಕ ವಿಷಯದಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ಅಂಕಗಳನ್ನು ಪಡೆದ ಏಕಸದ ವಿದ್ಯಾರ್ಥಿಗೆ

ಮಂಜುನಾಥ ಹರಿಜನ	ಐ.ಎ. -3	200	169			

24) ಶ್ರೀ. ಎಸು.ಜಿ. ಮಾಳ ಅವರ ತಮ್ಮ ಆರಿಯ ಪಾಠಿಪಡಿ ಕ. ಸಾವಿತ್ರಿ ಮಾಳ ಭವನ ಸ್ಮರಣಾರ್ಥ ಇಎಸ್ಸಿ ಪ್ರಥಮ, ದ್ವಿತೀಯ ಹಾಗೂ ತೃತೀಯ ವರ್ಷಗಳಲ್ಲಿ ಭೌತಶಾಸ್ತ್ರ ವಿಷಯಗಳನ್ನು ಐಚ್ಛಿಕವಿಂದು ಅತಿ ಹೆಚ್ಚು ಅಂಕಗಳನ್ನು ಪಡೆದ ಗಿಡ್ಯಾರ್ಥಿನಿಯರಿಗೆ ಕೊಡಮಾಡಿದ ನಗದು ಬಹುಮಾನ.

1	ಅಖಿಲಾ ಅಮೀನಗಡ	ಇಎಸ್ಸಿ-6				
2	ಶಿವಲೀಲಾ ಪಣಗೇರಿ	ಇಎಸ್ಸಿ-4				
3	ಹರ್ಷಿತಾ	ಇಎಸ್ಸಿ-2				

25) ಡಿ. ಶ್ರೀ ಬಾಬುರಾವ ಹನುಮಂತರಾವ ಅರಬಾರ, ವಿಸ್ತೃತ ವಿಭಾಗೀಯ ವ್ಯವಸ್ಥಾಪಕರು ಕೆಎಸ್ಡಿ ಬ್ಯಾಂಕ್ ವಿಜಯಪುರ, ಅವರ ಸ್ಮರಣಾರ್ಥ ಕ. ಸ. ಎಸ್.ಎ. ಅವರಾದ ಚಂದ್ರಶೇ ಸ್ಥಾಪಕರು. ಇವರು ಕೊಡಮಾಡಿದ ನಗದು ಸುವರ್ಣದ ಐ.ಎ 4 ನೇ ಸೆಮ್. ಇಂಗ್ಲಿಷ್ ಐಚ್ಛಿಕ ವಿಷಯದಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ಅಂಕ ಪಡೆದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ.

1	ಶರಣಬಸವ	ಐ.ಎ.-4	200	169	61.5%	

26	ಶ್ರೀ ನೀಲಕಂಠಪ್ಪ ಕಾಳಗಿ ಇವರು ತಮ್ಮ ಮಾತೋಶ್ರೀಯವರಾದ ದಿ.ಶ್ರೀಮತಿ ಬಸಮ್ಮ ಕಾಳಗಿ ಇವರ ಸ್ಮರಣಾರ್ಥ ಕೊಡಮಾಡಿದ ಬಹುಮಾನ ಬಿ.ಎ.ಅಂತಿಮ ವರ್ಷದಲ್ಲಿ ಐಚ್ಛಿಕ ಕನ್ನಡ ವಿಷಯದಲ್ಲಿ ಅತಿ ಹೆಚ್ಚು ಅಂಕಗಳನ್ನು ಪಡೆದ ವಿದ್ಯಾರ್ಥಿ						
1	ಅರುಣಕುಮಾರ	ಬಿ.ಎ 6 ಸೆಮ್	200	171	85.5%		ಆರ್ಯಾಸ

27	ಪ್ರೊ ಎಸ್.ಸಿ.ಬುಂಬಾ ನಿವೃತ್ತ ನಾಡ ಪ್ರಾಧ್ಯಾಪಕರು ಇವರು ವರಮ ಪೂಜ್ಯ ಲಿಂಗೈಕ್ಯ ಶ್ರೀ ಬ್ರ.ನಿ.ಸಮುರು ಶ್ರೀ ಶ್ರೀ ಬಸವರಾಜೇಂದ್ರ ರಾಜಯೋಗಿಗಳು ಬೆಳಗಾವಿ ಮತ್ತು ಶತಾಯುಷಿ ಪರಮಪೂಜ್ಯ ಲಿಂಗೈಕ್ಯ ಶ್ರೀ.ಬ್ರ.ನಿ.ಸಮುರು ಶ್ರೀ ಶ್ರೀ ಶ್ರೀ ಸಿದ್ಧಬಸವ ಚನುಪೀರ ಮಹಾಸ್ವಾಮಿಗಳು ಇಲಕಲ್ಲ ಇವರ ಸ್ಮರಣಾರ್ಥ ಶ್ರೀ ಪಾರ್ವತಿ ವಿರಾಜ ಎಂಬ ಹೆಸರಿನಲ್ಲಿ ಕೊಡಮಾಡುವ ಬಹು. ಆಂತಿಮ ವರ್ಷದಲ್ಲಿ ಬ್ಯಾಂಕಿಂಗ್ ಹಾಗೂ ಫೈನಾನ್ಸ್ ವಿಷಯಗಳನ್ನು ಆಯ್ಕೆ ಮಾಡಿ ಅತಿ ಹೆಚ್ಚು ಅಂಕ ಪಡೆದ ವಿದ್ಯಾರ್ಥಿಗೆನಗೆಯ ಪುರಸ್ಕಾರ. ಅವರಂತೆ ಬಿ.ಎ. ಅಂತಿಮ ವರ್ಷದಲ್ಲಿ, ಪ್ರಥಮ ಸ್ಥಾನ ಪಡೆದ ವಿದ್ಯಾರ್ಥಿ ಹಾಗೂ ಬಿ.ಎಸ್.ಸಿ ಅಂತಿಮ ವರ್ಷದಲ್ಲಿ, ಪ್ರಥಮ ಸ್ಥಾನ ಪಡೆದ ವಿದ್ಯಾರ್ಥಿಗೆನಗೆಯ ಪುರಸ್ಕಾರಗಳು.						
1	ಬಸ್ಪ್ರಯ್ ಬೇವಿನಕಟ್ಟಿ	ಬಿ.ಕಾಂ-3	700	605	85.71%		
2	ಮಂಜುನಾಥ ಹರಿಜನ	ಬಿ.ಎ -3	3700	3012	81.40%		
3	ಅಖಿಲಾ ಅಮೀನಗಡ	ಬಿ.ಎಸ್ಸಿ-3	4900	4256	86.80%	*	

ಸೂಚನೆ: ಮೇಲ್ಕಾಣಿಸಿದ ಪುರಸ್ಕಾರ ಪಟ್ಟಿಯನ್ನು ಯಾವುದೇ ಆಕ್ಷೇಪಣೆಗಳಿಲ್ಲದೆ, ಕಾರ್ಯಾಲಯದಲ್ಲಿ ಶ್ರೀ. ಎಸ್.ಕೆ. ಮಹಾವೀರ ಖ್ಯದಸಹಾಯಕರು ಹಾಗೂ ಶ್ರೀ ಎಸ್.ಕೆ.ಅಂಗಡಿ ದ್ವಿದಸಹಾಯಕರು ಇವರನ್ನು ಸಂಪರ್ಕಿಸಬೇಕು.

PRINCIPAL
S.V.M. Arts, Science and
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S V M Arts science & commerce college

Ilkal-587 125

Degree Alumni Cash Prizes 2021-22

Sl.No	Name of the Student	Class	Marks	Per	Remarks	Cash Prize
01	Sangeeta Ramappa Lamani 8073968883 Karabhon	BA II Sem	603/750	80.04	First	2000=00
02	Sharanabasava Hudad 9013798886	BA II Sem	596/750	79.46	Second	1000=00
03	Kaveri Laxman Nidasheshi 8792146144	BA IV Sem	507/600	84.50	First	2000=00
04	Manjunath 9110838638	BA IV Sem	498/600	83.00	Second	1000=00
05	Nagaraj Bhattar 6361864170	BA VI Sem	2059/2400	85.79	First	2000=00
06	Mallikarjun Nadagaouda 9535532469	BA VI Sem	2018/2400	84.08	Second	1000=00
0.	Shivaleela K. Vanageri 7026819805	B.Sc.II Sem	579/650	89.07	First	2000=00
08	Srusti Uppar 8128418919	B.Sc.II Sem	573/650	88.15	Second	1000=00
09	Veda K. Talageri 9342670088	B.Sc.IVSem	658/750	87.73	First	2000=00
10	Bhavana Iliger	B.Sc.IV Sem	652/750	86.93	Second	1000=00
11	Maimunaifra Bilekudari 9538382855	B.Sc. VI sem	3522/3800	92.68	First	2000=00
12	Kavya Vanagaeri 7483388512	B.Sc. VI sem	3506/3800	92.26	Second	1000=00
13	Shaila Wafa 9900942946	B.Com II Sem	558/650	85.84	First	2000=00
14	Preeti Rajeev Masagi 9845555097	B.Com II Sem	555/650	85.38	Second	1000=00
15	Pooja Yallosa Kathari 9008915556	B.Com IV Sem	671/750	89.46	First	2000=00
1,	Huligevva S Bakkan adar 9113584418	B.Com IV Sem	602/750	80.26	Second	1000=00
17	Ashabegum Kustagi 6363349600	B.Com VI Sem	3322/3700	89.78	First	2000=00
18	Savitri Malapati 8088518085	B.Com VI Sem	3317/3700	89.65	Second	1000=00

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S.V.M.Arts, Science and Commerce College

Ilkal-587 125

Degree Alumni Cash Prizes 2022-23

Sl.No	Name of the Student	Class	Marks	Per	Remarks	Cash Prize
01	Indraja/9620684856	BA II Sem	703/800	87.87	First	3000=00 Indraja
02	Soumya/9448778787	BA II Sem	683/800	85.37	Second	1500=00 Soumya
03	Sahana Katapurmath/9902744343	BA IV Sem	630/750	84.00	First	3000=00 SVK
04	Sangeeta Karabari /8073968883	BA IV Sem	624/750	83.02	Second	1500=00
05	Manjunath/8197894037	BA VI Sem	3012/3700	81.40	First	3000=00
06	KAVERI Nidasheshi/8792461447	BA VI Sem	2993/3700	80.89	Second	1500=00
07	Shridevi Patil/9448448095	BA VI Sem	2993/3700	80.89	Second	1500=00
08	Harshita Kulkarni/7319305234	B.Sc. II Sem	631/700	90.14	First	1500=00
09	Pallavai Hiremani 9449362439	B.Sc. II Sem	631/700	90.27	First	1500=00
10	Chetan Kopparad/9880814806	B.Sc. II Sem	620/700	88.57	Second	1500=00
11	Tasleem Bhavikatti/9741773448	B.Sc. IV Ssm	584/650	89.84	First	3000=00
11	Bheemamma Bandi/9743879326	B.Sc. IVSem	579/650	89.07	Second	1500=00
12	Akhila Aminagad/9538735663	B.Sc. VI Sem	4256/4900	86.85	First	3000=00
13	Veda Talageri/9342670088	B.Sc. VI Sem	4250/4900	86.73	Second	1500=00
1.	Jyoti/8951127727	B.Com II Sem	634/700	90.57	First	3000=00
15	Chandana Bandi/7411752139	B.Com II Sem	608/700	86.85	Second	1500=00
16	Chinmaya Gunhalkar/6362423638	B.Com IV Sem	632/700	90.28	First	3000=00
17	Preeti Masagi/9845555097	B.Com IV Sem	596/700	85.14	Second	1500=00
18	Pooja Kathari/9008915556	B.Com VI Sem	3967/4400	90.15	First	3000=00
19	Aishwarya Bevinakatti/7411044129	B.Com VI Sem	3745/4400	85.11	Second	1500=00

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S.V.M. Arts Science and
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Shri Vijay Mahantesh Vijayavardhak Society's

Shri VijayMahantesh Arts, Science & Commerce College, ILKAL - 587 125

Voucher No. :

Date : 19/05/2024

CASH - VOUCHER

Received with thanks from
The Principal,
S. V. M. Arts, Science & Commerce College,
ILKAL

This day the sum of Rs. 3000/-

Rupees Three thousand rupees
only   (in words)

On account of Tcst prize in PUC-I arts.

Sign : Vgaddi

Name : Vinankumar Gaddi

Paid Rs. :   Admitted for payment:

Date :

Account :

Debit :   A/c.   Principal

M.O.P.ILK-200-7-03

PRINCIPAL
S.V.M. Arts, Science and
Commerce College, ILKAL

Shri VijayMahantesh Arts, Science & Commerce College, ILKAL - 587 125

Voucher No. : _____

Date : 19|05|2024

═══ CASH - VOUCHER ═══

Received with thanks from
The Principal,
**S. V. M. Arts, Science & Commerce College,
ILKAL**

This day the sum of Rs. ___1.5.00___ |___ ___ (in words)
Rupees _One thousand five hundred rupees only_

On account of _Second prize in B.A Prim_

Sign. ~~_____~~

Name _Soumya_

Admitted for payment

Paid Rs. : _____

Date : _____

Account : _____

Debit : _____ A/c

Principal

M.O.P.ILK./200/7-03

Shri VijayMahantesh Arts, Science & Commerce College, ILKAL - 587 125

Voucher No. :

Date: 19|05|2024

CASH - VOUCHER

Received with thanks from
The Principal,
S. V. M. Arts, Science & Commerce College,
ILKAL

This day the sum of Rs. 3000|—

Rupees Three thousand rupees only (in words)

On account of First prize in B.A.I sem

Sign. Indiraja

Name Indiraja

Paid Rs.

Date :

Account :

Debit : _____ A/c

Admitted for payment

Principal