


	#	KRA	Initiatives	Weight (%)
Category 1		Leadership Initiative		
	1.1	Organisational Leadership		
	1.2	Curriculum Development		
	1.3	Infrastructure Development (Hard / Soft)		
	1.4	Information Technology		
	1.5	Public Responsibility & Citizenship		
Category 2		Strategic Planning		
	2.1	Strategy Development (Academic & Non-Academic)		
	2.2	Strategy Deployment		
Category 3		Student & Stakeholder Focus Knowledge of Students Needs & Expectations		
	3.1	Module Feedback:		
	3.2	Module Feedback:		
	3.3	Module Feedback:		
	3.4	Student & Stakeholder Satisfaction & Relationships		
Category 4		Information & Analysis		
	4.1	Measurement of Academic Performance (Pub. Etc.)		




Principal
 College of Non-Conventional
 Vocational Courses for Women
 Kolhapur.

	4.2	Analysis of Academic Performance		
Category 5		Faculty, Staff & Student Focus		
	5.1	Work Systems		
	5.2	Faculty & Staff Education, Training & Development		
	5.3	Faculty & Staff Well Being & Satisfaction		
Category 6		Educational & Support Processes		
	6.1	Education Design & Delivery		
	6.2	Education Support Processes		
	6.3	Community Development & Services		
	6.4	Partnering Processes		
Category 7		Organisational & Performance Results		
	7.1	Financial Performance		
	7.2	Audit & Performance Results		

Performance Template For (Name of Employee):				
Current Role:				
	#	KRA	Initiatives	Weight (%)
Category 1		Leadership Initiative		
	1.1	Organisational Leadership		
	1.2	Work Process Development		
	1.3	Infrastructure Development (Hard / Soft)		
	1.4	Information Technology (Record)		
	1.5	Public Responsibility & Citizenship	Team Goals	
Category 2		Strategic Planning		
	2.1	Strategy Development		
	2.2	Strategy Deployment		
Category 3		Institute Stakeholder Focus Institute's Needs & Expectations		
	3.1	Performance Feedback		
	3.2	Performance Feedback		
	3.3	Performance Feedback		
	3.4	Institute Satisfaction & Relationships	Team Goals	
Category 4		Information & Analysis		
	4.1	Measurement of Administrative Performance		
	4.2	Analysis of Administrative Performance		

Category 5		Faculty, Staff & Student Focus		
	5.1	Work Systems		
	5.2	Staff Education, Training & Development		
	5.3	Faculty & Staff Well Being & Satisfaction		
Category 6		Operation & Support Processes		
	6.1	Operation Design & Delivery		
	6.2	Operation Support Processes		
	6.3	Community Development & Services		
	6.4	Partnering Processes		
Category 7		Organizational & Performance Results		
	7.1	Financial Performance	By Management	
	7.2	Audit & Performance Results	By Management	
			Goal Setting Completed	
Employee's Signature				
Date				
Manager's Signature				
Date				




Principal
 College of Non-Conventional
 Vocational Courses for Women
 Kolhapur.

SHIVAJI UNIVERSITY, KOLHAPUR
Annual Self Appraisal Report (ASAR)

As per 7th Pay UGC Regulation 18th July, 2018 and
Govt. of Maharashtra Resolution 8th March, 2019

**For College Assistant / Associate Professor /
University Assistant Professor**

Academic Year : 2023 - 2024

(Duration : From 01/07/2023 To 30/04/24)

A. General Information

- a) Name (Surname first) : Dr./Sri./Smt. **Mirajkar Yogita Rahul**
- b) Designation : **Asst. Professor**
- c) College / University : **College of Non Conventional Vocational Courses for Women, Kolhapur.**
- d) Department : **Food Technology**
- e) Date of Birth : **17/11/1988**
- f) Date of Appointment : **01/07/2023**
- g) Total Teaching Experience : **UG: 01 year PG: 02 years**
- h) Permanent Address (with Pin code) : **R-12, Murali, Sharada Vihar, Hecke Stadium, Kolhapur.**
- Mobile No. : **9762525349**
- Email : **yogitamirajkar 88@gmail.com.**

B. Academic Qualifications

Sr. No.	Exam. Passed	University	Subject	Year	Grade / Class
1	ASRBNET	ICAR	Food Technology	2021	Qualified
2	UGC NET	NTA	Home Science	2021	Qualified
3	SET	Savitribai Phule Uni	Home Science	2021	Qualified
4	M.Sc FST	Shriji University	Food Sci & Tech	2012	66.95%
5	B.F.TM	CNCVC	Food Technology	2009	79.33% (2 nd)
6	MS-CIT	M.S.B.T.E Mumbai		2008	92.00%



C. Research / Fellowship / Research Training Program :

Sr. No.	Research	Title of Work / Thesis	University / Institute
1	JRF/ SRF etc.		
2	M.Phil.		
3	Ph.D.	Studies on Development of Plant based Keto Soups &	swajai University
4	Research Training Program	its application as Instant Premixes	
5			

D. Orientation / Refresher / Short Term Course Completed :

Sr. No.	Course	Duration	University / Institute
1	Faculty Induction programme.	6-11-2023 to 7-12-23	JNTUH , Hyderabad .
2			
3			
4			
5			

Appendix II

Table 1

Assessment Criteria and Methodology for University/College Teachers

Table 1.1: Teaching –

Activity	Percentage Obtained	Grade Claimed	*Grade Verified
Teaching- $\frac{A}{B} \times 100 = \frac{80}{100} \%$ Where A: Number of classes (Lectures) taught B: Total classes (Lectures) assigned (Classes taught includes sessions on tutorials, lab and other teaching related activities)	80%	Good / ✓ Satisfactory / Not satisfactory	Good / Satisfactory/ Not satisfactory

Grading Criteria : 80% & above - Good, Below 80% but 70% & above - Satisfactory
 Less than 70% - Not satisfactory.

Note : Strike out whichever is not applicable.

Table 1.2: Involvement in the University / College students related activities / research activities:

Sr. No.	Activity	Grade Claimed	Grade Verified	Page No.
(a)	Administrative responsibilities such as Head, Chairperson/ Dean/ Director/ Co-ordinator, Warden etc. Number of activities : ...04...			1-2
(b)	Examination and evaluation duties assigned by the college / university or attending the examination paper evaluation. Number of activities : ...04...	Good / ✓ Satisfactory / Not satisfactory	Good / Satisfactory/ Not satisfactory	3-16
(c)	Student related co-curricular, extension and field based activities such as student clubs, career counselling, study visits, student seminars and other events, cultural, sports, NCC, NSS and community services.			17-21

	Number of activities : ... 04			-
(d)	Organizing seminars/ conferences/ workshops, other college/university activities. Number of activities : ... 03			22-26
(e)	Evidence of actively involved in guiding Ph.D students. Number of Students : ...			-
(f)	Conducting minor or major research project sponsored by national or international agencies. Number of Projects : Major : ... Minor : ...			-
(g)	At least one single or joint publication in peer reviewed or UGC list of Journals. Number of Publications : 04			27-32

Grading Criteria : Good - Involved in at least 3 activities

Satisfactory - 1-2 activities

Not-satisfactory - Not involved / undertaken any of the activities

Note: i) Number of activities can be within or across the broad categories of activities

ii) Strike out whichever is not applicable.

Overall Grading:

Sr. No.	Grade	Criteria
1	Good	Good in teaching (Table 1.1) and satisfactory or good in activity at Table 1.2.
2	Satisfactory	Satisfactory in teaching (Table 1.1) and good or satisfactory in activity at Table 1.2.
3	Not Satisfactory	If neither good nor satisfactory in overall grading

Note: For the purpose of assessing the grading of Activity at Table 1.1 and Table 1.2, all such periods of duration which have been spent by the teacher on different kinds of paid leaves such as Maternity Leave, Child Care Leave, Study Leave, Medical Leave, Extraordinary Leave and Deputation shall be excluded from the grading assessment. The teacher shall be assessed for the remaining period of duration and the same shall be extrapolated for the entire period of

assessment to arrive at the grading of the teacher. The teacher on such leaves or deputation as mentioned above shall not be put to any disadvantage for promotion under CAS due to his/her absence from his/her teaching responsibilities subject to the condition that such leave/deputation was undertaken with the prior approval of the competent authority following all procedures laid down in these regulations and as per the acts, statutes and ordinances of the parent institution.

Overall Grading				
Sr. No.	Grade Claimed	Overall Grade Claimed	Grade Verified	Overall Grade Verified
Table – 1.1	Good / Satisfactory / Not satisfactory	Good / ✓ Satisfactory / Not satisfactory	Good / Satisfactory / Not satisfactory	Good / Satisfactory / Not satisfactory
Table – 1.2	Good / Satisfactory / Not satisfactory	Good / Satisfactory / Not satisfactory	Good / Satisfactory / Not satisfactory	Good / Satisfactory / Not satisfactory

Pirajhar

Signature of the Faculty

[Handwritten Signature]

Signature of HOD/Director/Co-ordinator

Signature of Principal/ Director/ Vice Chancellor



[Handwritten Signature]
Principal
College of Non-Conventional
Vocational Courses for Women
Kolhapur.

Agenda 3: To discuss and finalize class coordinators (2023-24) and allocation of duties.

Resolution: The class coordinators and their substitute coordinators were finalized as follows:

Sr. no	Program	Class coordinator	Substitute coordinator
1.	B.Sc. (FTM)- I	Ms. Sakshi M. Desai	Ms. Siddhi S. Shinde
2.	B.Sc. (FTM)- II	Ms. Ritika K. Chandwani	Ms. Bhawana Agarwal
3.	B.Sc. (FTM)- III	Mrs. Ashwini S. Raibagkar	Mrs. Shweta A. Patil
4.	PGDND	Dr. Neelam S. Jirage	Mrs. Ashwini S. Raibagkar
5.	M.Sc. (FSN)- I	Mrs. Yogita R. Mirajkar	Ms. Shivani Patil
6.	M.Sc. (FSN)- II	Ms. Divya S. Satpute	Ms. Shivani Patil

Principal Dr. A.R. Kulkarni suggested to list out the duties needed to be assigned to a class coordinator.

Agenda 4: To discuss and finalize Class Representative of following classes- B.Sc FTM I, II, III, M.Sc FSN I, II, PGDND.

Resolution: The class representatives were finalized based on merit. Following students were nominated as class representative:

1. B.Sc. FTM- I- Tanaya Shripad Patankar
2. B.Sc. (FTM)- II- Shilpa Shashikant Salonkhe
3. B.Sc. (FTM)- III- Akansha Gajanan Joshi
4. PGDND- Sejal Chhagan Atole
5. M.Sc. (FSN)- I- Pooja Dinkar Sankpal
6. M.Sc. (FSN)- II- Arohi Lakshmi Prasad Moghe

Agenda 5: To discuss about Department Developmental Plan for the academic year 2023-24.

Resolution: Head of department Mrs. Shweta A. Patil discussed the departmental development plan. Annexure of the same is attached.

She also discussed various activities to be conducted by department of Food Technology for the academic year 2023-24

Agenda 6: Any other item with the permission of chair.

Resolution: 1. Discussion on organizing a parent teachers meet for B.Sc. (FTM)-II, B.Sc. (FTM)-III, PGDND & M.Sc. (FSN)-II. The meeting will be conducted in the month of October 2023.
2. Principal Dr. A.R. Kulkarni informed the faculty members to prepare a progression report of the alumni.

Meeting concluded by proposing a vote of thanks to the chair Mrs. Shweta A. Patil and invitee member Principal Dr. A.R. Kulkarni.

Date: 02/08/2023

Place: Kolhapur

Divya S. Satpute
Ms. Divya S. Satpute
Staff Secretary

Shweta A. Patil
Mrs. Shweta A. Patil
Chairman & Head of Department



CHH. SHAHU INSTITUTE OF BUSINESS EDUCATION & RESEARCH TRUST'S
COLLEGE OF NON-CONVENTIONAL VOCATIONAL COURSES FOR WOMEN

University Road, Kolhapur - 416 004

(Affiliated to Shivaji University, Kolhapur, Maharashtra, India)

Accredited by NAAC with B++ Grade (2.97 CGPA 4th Cycle)

Website: www.cncvcw.edu.in E-Mail: cncvcw@siberindia.edu.in Ph.No. : (0231) 2535405

Prof. Dr. A. D. SHINDE
Founder

Dr. R. A. SHINDE
Secretary & Managing Trustee

Date: 29/01/2024

RESEARCH PROMOTION AND MONITORING CELL

Notice

This is to inform all the members of the Research Promoting and Monitoring Cell that the meeting for the academic year 2023-24 is scheduled on ~~31st~~ 29th February 2024 at 2.00 pm in IQAC. The following members are requested to be present-

Sr. no	Name of Committee Member	Designation	Signature
1	Dr. A.R. Kulkarni	Chairman	
2	Mrs. Yogita Mirajkar	Co-ordinator	
3	Mrs. Jyoti Hiremath	Member	
4	Mrs. Shweta Patil	Member	
5	Ar. Seema Patil	Member	
6	Ms. Pooja Sarolkar	Member	
7	Ms. Madhavi Ghadi	Member	

Agenda-

1. To read and confirm the minutes of the last meeting held on 29/09/2023.
2. To take note of the research activities of all faculty members.
3. Discussion on research proposal submitted to Shivaji University, under the Diamond Jubilee Research Grant to College Teachers Scheme 2023-24.
4. Any other item with the permission of the chair.

Mrs. Yogita Mirajkar
Co-ordinator

Dr. A.R. Kulkarni

SHIVAJI UNIVERSITY, KOLHAPUR**ATTENDANCE CERTIFICATE**

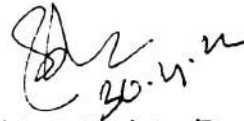
Sr. No. 036

This is to certify that Prof. / Dr. / Shri. / Smt. Yogita Rahul MirajkarCollege Name CNCUCW has attended the CentralAssessment work of answer books in the subject of Public Health Nutritionat M. Sc. (FSN) II Examination of April/Oct. 2024 Session, inthe University office, Kolhapur/CAP Centre From 30/04/2024 to 30/04/2024For 01 day's.

Assessment of A.B.'s	Moderation of A. B.'s	Revaluation of A. B.'s	Total

No. SU/EXAM/CAP/

Date: 30/04/2024



CAP Director/ Asstt. Registrar/Deputy Registrar

(Post Exam.)

Shivaji University, Kolhapur

SHIVAJI UNIVERSITY, KOLHAPUR**ATTENDANCE CERTIFICATE**

Sr. No. 2201

This is to certify that Prof. / Dr. / Shri. / Smt. MIRAJKAR YOGITA RAHUCollege Name CNCUCW, K.P. has attended the CentralAssessment work in the subject of M.Sc. (FSN) I HP, NB, PCLO, NTLCat M. Sc. (FSN) I Examination in the Universityoffice, Kolhapur From 25/6/23 to 5/7/23 For 10 day's.

Assessment of A.B.'s	Moderation on of A. B.'s	Total
100		100

No SU/EXAM/CAP/

Date:



(Post Exam.)

Shivaji University, Kolhapur



शिवाजी विद्यापीठ, कोल्हापूर-४१६ ००४, महाराष्ट्र

परीक्षक नियुक्ती विभाग * फोन : ०२३१-२६०९१०२, २६०९१०३

E-mail : appointment.a@unishivaji.ac.in ; appointment.b@unishivaji.ac.in

1299

ATTENDANCE CERTIFICATE

This is to certify that Prof./Dr. Mrs. Yogita Rahul Mirajkar

of Dept of Food Tech, CNCVCW has attended the Paper Setting Meeting

in the subject of CN, NB, FPDP & PHN

at M.Sc. (FSN) I & II Examination in the University Office,

Kolhapur on 15/03/24 & 18/03/24

No. SU/EXAM/AAP/

Date : 18/03/24

J
Dy. Registrar

lcl

Jobs : C-18.

SHIVAJI UNIVERSITY, KOLHAPUR

ATTENDANCE CERTIFICATE

Sr. No. 2545

This is to certify that Prof./Dr./Shri/Smt. Yogita R. Mirajkar

College Name CNCVCW has attended the Central

Assessment work in the subject of NB & CN

at M.Sc. (FSN) I Examination in the University

office, Kolhapur From 03/05/24 to 04/05/24 For 02 day's.

Assessment of A.B's	Moderation on of A. B's	Total

Confidential Appointment order from Shivaji University as Moderator

7 messages

Thu, Apr 25, 2024 at 10:58 AM

Shivaji University - Exam Alert <info@brainzorg.com>
To: "Ms. Mirajkar Yogita Rahul" <yogitamirajkar88@gmail.com>



शिवाजी विद्यापीठ, कोल्हापूर . SHIVAJI UNIVERSITY, KOLHAPUR

Estd-1962 - recognized by UGC U/s 2(f) and 12 (B)
NAAC "A++" Grade with CGPA 3.52

Helpline number: 02312609317

No. SUK/APPT/Shri. Sanjiv/March - 2024.

CONFIDENTIAL

ORDER No.: March - 2024/00232

Date: 24/04/25 10:57:24

To

Dr / Prof Ms. Mirajkar Yogita Rahul

Email:- yogitamirajkar88@gmail.com

Mobile No:- 9762525349

Course Name and Subject Code :- M.Sc. Food Science & Nutrition (NEP 1.0)

Subject Code :- 87814

Subject Name :- Human Physiology

SUBJECT : Appointment As Moderator for University Examination work as per provisions in Section 48(3)(4) of M.P.U. Act., 2016

Dear Sir/Madam,

I am directed to appoint you as **Moderator** for the above mentioned subject(s) for the theory Summer Examination March - 2024.

This appointment is made under section 48(3)(4) of Maharashtra Public Universities Act 2016 and on the following assumptions :-

1. You are not qualified to be a Paper Chairman / Paper-setter/Moderator/Examiner -
 - I. If your relative has appeared for the same concerned examination (Father, mother, wife, husband, son, daughter, grandson, grand-daughter, brother, sister, nephew, niece, uncle, aunt, first cousin, son-in-law, daughter-in-law, brother-in-law and sister-in-law.) (N.B. : Son, daughter, brother, sister will be understood to include also step-son step-daughter, step-brother or step-sister as the case may be.)
 - II. If you are conducting private tuition for the students for any examination.
 - III. If you are a student appearing for the same concerned examination.
 - IV. If you have written guides, annotations, solved example of the same examination.

8/2/24, 10:37 AM

Gmail - Confidential Appointment order from Shivaji University as Moderator

2. This appointment is made under Section 48(3)(4) of M.P.U. Act., 2016 and it is compulsory. Non acceptance of this order will be treated as misconduct as per section 48(4) of M.P.U. Act., 2016. Kindly send your acceptance immediately to the office and to the concerned Chairperson.
3. If you received two or more appointments for different examination during the same period, you should accept the work as per the following priority decided by the university and inform this office accordingly. So as to enable the University office to make alternative arrangements.
 - I. Vigilance Squad
 - II. Setting of Que. Ppr
 - III. Assessment and Moderation of Ans. Books
 - IV. Practical Examination
 - V. Director of Central Assessment work
 - VI. External Senior Supervisor
 - VII. Internal Senior Supervisor
 - VIII. Jr. Supervisor.
4. You are requested to attend the without fail -
 - I. CAP (Assessment/Moderation) on >>27.04.2024
 - II. Place - Examination Building-2, Shivaji University, Kolhapur



Shri Nivas S. Mane
Dy. Registrar,
Appointment Section
Shivaji University, Kolhapur

Important Note :- The Concerned teacher should give a copy of this order to the respective Principal / Director / Head of Dept. for official intimation and necessary office procedures.

C. C. The Principal / Director / Head Of Dept. (Respective College / Dept) - Please relieve concerned teacher for Examination Work on priority

Shivaji University - Exam Alert <info@brainzorg.com>
To: "Ms. Mirajkar Yogita Rahul" <yogitamirajkar88@gmail.com>

Thu, Apr 25, 2024 at 10:58 AM



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Estd-1962 - recognized by UGC U/s 2(f) and 12 (B)

NAAC "A++" Grade with CGPA 3.52

Helpline number: 02312609317

Ref No. SUK/APPT/Shri. Sanjiv/March - 2024.

CONFIDENTIAL

ORDER No.: March - 2024/00232

Date: 24/04/25 10:57:26

To

Dr / Prof Ms. Mirajkar Yogita Rahul

Email - yogitamirajkar88@gmail.com

3. If you received two or more appointments for different examination during the same period, you should accept the work as per the following priority decided by the university and inform this office accordingly. So as to enable the University office to make alternative arrangements.
- I. Vigilance Squad
 - II. Setting of Que. Ppr
 - III. Assessment and Moderation of Ans. Books
 - IV. Practical Examination
 - V. Director of Central Assessment work
 - VI. External Senior Supervisor
 - VII. Internal Senior Supervisor
 - VIII. Jr. Supervisor.
4. You are requested to attend the without fail -
- I. CAP (Assessment/Moderation) on >>02.05.2024
 - II. Place - Examination Building-2, Shivaji University, Kolhapur



Shri Nivas S. Mane
Dy. Registrar,
Appointment Section
Shivaji University, Kolhapur

Important Note :- The Concerned teacher should give a copy of this order to the respective Principal / Director / Head of Dept. for official intimation and necessary office procedures.

C. C. The Principal / Director / Head Of Dept. (Respective College / Dept) - Please relive concerned teacher for Examination Work on priority

Shivaji University - Exam Alert <info@brainzorg.com>
To: "Ms. Mirajkar Yogita Rahul" <yogitamirajkar88@gmail.com>

Thu, Apr 25, 2024 at 10:58 AM



शिवाजी विद्यापीठ, कोल्हापूर SHIVAJI UNIVERSITY, KOLHAPUR

Estd-1962 - recognized by UGC U/s 2(f) and 12 (B)
NAAC "A++" Grade with CGPA 3.52

Helpline number: 02312609317

Ref No. SUK/APPT/Shri. Sanjiv/March - 2024.

CONFIDENTIAL

ORDER No.: March - 2024/00232

Date: 24/04/25 10:57:25

To

Dr / Prof Ms. Mirajkar Yogita Rahul

Email:- yogitamirajkar88@gmail.com

Mobile No:- 9762525349

Course Name and Subject Code :- M.Sc. Food Science & Nutrition (NEP 1.0)

Thu, Apr 25, 2024 at 10:58 AM

Shivaji University - Exam Alert <info@brainzorg.com>
To: "Ms. Mirajkar Yogita Rahul" <yogitamirajkar88@gmail.com>

शिवाजी विद्यापीठ, कोल्हापूर

SHIVAJI UNIVERSITY, KOLHAPUR

Estd-1962 - recognized by UGC U/s 2(f) and 12 (B)
NAAC "A++" Grade with CGPA 3.52



Helpline number: 02312609317

Ref No. SUK/APPT/Shri. Sanjiv/March - 2024.

CONFIDENTIAL

ORDER No.: March - 2024/00232

Date: 24/04/25 10:57:27

To

Dr. / Prof Ms. Mirajkar Yogita Rahul

Email:- yogitamirajkar88@gmail.com

Mobile No:- 9762525349

Course Name and Subject Code :- M.Sc. Food Science & Nutrition (NEP 2.0)

Subject Code :- 94580

Subject Name :- Advances in Food Microbiology

SUBJECT : Appointment As Moderator for University Examination work as per provisions in Section 48(3)(4) of M.P.U. Act., 2016

Dear Sir/Madam,

I am directed to appoint you as **Moderator** for the above mentioned subject(s) for the theory Summer Examination March - 2024.

This appointment is made under section 48(3)(4) of Maharashtra Public Universities Act 2016 and on the following assumptions :-

- You are not qualified to be a Paper Chairman / Paper-setter/Moderator/Examiner -
 - If your relative has appeared for the same concerned examination (Father, mother, wife, husband, son, daughter, grandson, grand-daughter, brother, sister, nephew, niece, uncle, aunt, first cousin, son-in-law, daughter-in-law, brother-in-law and sister-in-law.) (N.B. : Son, daughter, brother, sister will be understood to include also step-son, step-daughter, step-brother or step-sister as the case may be.)
 - If you are conducting private tuition for the students for any examination.
 - If you are a student appearing for the same concerned examination.
 - If you have written guides, annotations, solved example of the same examination.
- This appointment is made under Section 48(3)(4) of M.P.U. Act., 2016 and it is compulsory. Non acceptance of this order will be treated as misconduct as per section 48(4) of M.P.U. Act., 2016. Kindly send your acceptance immediately to the office and to the concerned Chairperson.
- If you received two or more appointments for different examination during the same period, you should accept the work as per the following priority decided by the university and inform this office accordingly. So as to enable the University office to make alternative arrangements.
 - Vigilance Squad
 - Setting of Que Ppr
 - Assessment and Moderation of Ans Books



शिवाजी विद्यापीठ, कोल्हापूर SHIVAJI UNIVERSITY, KOLHAPUR

Estd-1962 - recognized by UGC U/s 2(f) and 12 (B)
NAAC "A++" Grade with CGPA 3.52

CONFIDENTIAL

RefNo. SUK/APPT/7346

Order No. MAR2024 EXAM/H122

To

Date: 16-February-2024

Teacher Name: Dr/Prof/Mr/Mrs MIRAJKAR YOGITA RAHUL
Email: yogitamirajkar88@gmail.com
Course Name: CBCS B.Sc. Food Technology & Management (Entire)
Course Part: 3 Semester 5
Subject Code: 74063 .. Descriptive
Subject Name: Bakery and Confectionery - I

Mobile No: 9762525349

Dear Sir/Madam

I am directed to appoint you as Paper Setter/Subject Expert for the above mentioned subject(s) for the theory Examination MAR-APR-2024 SUMMER EXAMINATION. You are requested to prepare Three sets of Question Papers. Paper setting should be based on the syllabus in force. It should cover the entire syllabus. Paper pattern and scheme of marking accepted by authorities must be observed. Utmost care should be taken to avoid out of syllabus questions. Correct instructions to solve the question paper should be given at the top of the paper. Heading and titles of the paper should be as per approved syllabus. The confidentiality of the question paper should be strictly followed.

This appointment is made under section 48(3)(4) of Maharashtra Public Universities Act 2016 and on the following assumptions :-

- You are not qualified to be a Paper Chairman / Paper-setter/Moderator/Examiner -
 - If your relative has appeared for the same concerned examination (Father, mother, wife, husband, son, daughter, grandson, grand-daughter, brother, sister, nephew, niece, uncle, aunt, first cousin, son-in-law, daughter-in-law, brother-in-law and sister-in-law.) (N.B. : Son, daughter, brother, sister will be understood to include also step-son, step-daughter, step-brother or step-sister as the case may be.)
 - If you are conducting private tuition for the students for any examination.
 - If you are a student appearing for the same concerned examination.
 - If you have written guides, annotations, solved examples of the same examination.
- This appointment is made under Section 48(3)(4) of M.P.U. Act., 2016 and it is compulsory. You are requested to communicate your acceptance immediately click => https://sukapps.unishivaji.ac.in/srpd_api/order-acceptance.aspx to report your acceptance. **Non acceptance of this order will be treated as misconduct as per section 48(4) of M.P.U. Act., 2016.** Kindly send your acceptance immediately to the office and to the concerned Chairperson.

- 3) Mode of paper setting & Venue of Meeting: **Online- Through System**
Date Of Meeting/Last Date of Set Submission: **26.02.2024**

Mr. Nivas S. Mane
Dy. Registrar (Appointment)
Shivaji University, Kolhapur

CC. Principal/ Director - Respective College/Institute- Requested to relieve concerned staff for said examination work

Expert Name	Contact no	Email	Role
PATIL SHWETA ABHIJEET	9503678778	shweta310388@gmail.com	Chairman

(in case of any query regarding appointment plz. Contact 0231 2609102 / 9103)

Dr / Pib
mail - yogitamirajkar@gmail.com
No - 9762
V C W
COLHAPUR

CSIBER Trust's

College of Non-Conventional Vocational Courses for Women,
Kolhapur.

ACTIVITY REPORT

Name of Event/ Activity- Field visit to Gold's Gym Kolhapur (Activity under MoU).

Organizing Department/ Committee- Department of Food Technology

DATE: 23/12/2023

Objective (s)-

- To get familiar with the working culture at Gyms.
- To understand Dietitian's role at Gyms.
- To get knowledge of various instruments used in Gyms.
- To understand the importance of exercise and physical fitness.

Description-

Gold's Gym is an international franchise of Gyms. Gold's Gym, Kolhapur is located at Arabai Park, Kolhapur. It is one of the well-known and reputed gyms of Kolhapur. Gold's Gym contains various instruments specially designed for fat loss and muscle gain purpose. It also provides other facilities like Zumba, yoga, and diet advice. Trainers are appointed for providing personal fitness training to the clients. Dietitians are appointed for dietary advice. Mr. Vinayak Kumbhar, the fitness trainer, and his assistants provided the information of the gym to the students during the visit.

Target Group – M.Sc. (FSN) II Students

Number of Participants- 17

Outcomes (s)-

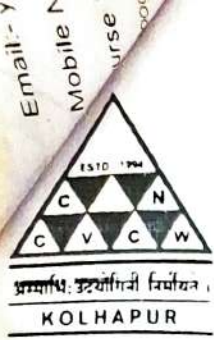
- Students have gained knowledge about various gym equipment's.
- Students got introduced to Gym culture and environment.
- Students have learned the importance of exercise and physical activity in life.
- Students have got a learning experience during the visit.

Name and Signature Head of Department/ Committee Coordinator-

Mirajkar
Mrs. Yogita R. Mirajkar

Assistant Professor

Datil
(S. A. Patil)



CSIBER Trust's
College of Non-Conventional Vocational Courses for Women,
Kolhapur.

ACTIVITY REPORT

Name of Event/ Activity- Field visit to Gold's Gym Kolhapur (Activity under MoU).

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Target Group – M.Sc. (FSN) II Students

Number of Participants- 17

Outcomes (s)-

1. Students have gained knowledge about various gym equipment's.
2. Students got introduced to Gym culture and environment.
3. Students have learned the importance of exercise and physical activity in life.
4. Students have got a learning experience during the visit.

Name and Signature Head of Department/ Committee Coordinator-

Yogita R. Mirajkar
 Mrs. Yogita R. Mirajkar

Assistant Professor

Dati
 (S. A. Patil)



CSIBER Trust's

College of Non-Conventional Vocational Courses for Women,
Kolhapur.

ACTIVITY REPORT

Name of Event/ Activity- Resume Writing Training Program

Organizing Department/ Committee- Department of Food Technology

DATE: 09/01/2024

Res
Tre
c

Objective (s)-

1. To get familiar with the different parts of a resume and their purpose.
2. To identify different types of CV & resume and when to use them.
3. To prepare an attractive Resume for articulation and future career.

Description-

Resume writing workshops can help participants learn about the employment world and how to market themselves. The Comprehensive Resume Writing Training Program is designed to equip students with the essential skills and knowledge needed to create compelling resumes. A well-crafted resume is a key component in any job search, and this program aims to empower students to showcase their qualifications and experiences in a way that captures the attention of employers. In this regard, Dept. of Food Technology has organized a Resume Writing Training Program For M.Sc. (FSN) II and PGDND students on 09/01/24. Dr. Sunita Dalvai, Assistant Professor of English served as Trainer for the same.

Target Group – M.Sc. (FSN) II Students + PGDND Students

Number of Participants- 16+15=31

Outcomes (s)-

1. Students have gained knowledge about different parts of a resume and their purpose.
2. Students learned about different types of CV and Resume.
3. Students have a learning experience during the program.

Mirajkar

Mrs. Yogita R. Mirajkar
Activity Co-ordinator

Patil

Mrs. Shweta A. Patil

HOD

Department of Food Technology
CNCWDA, Kolhapur



CSIBER Trust's

College of Non-Conventional Vocational Courses for Women,
Kolhapur

SOCIAL OUTREACH ACTIVITY REPORT

Name of Event/ Activity- Social Outreach Activity- Awareness on Health and Nutrition in Society.

Organizing Department/ Committee- Department of Food Technology

DATE: 08/09/2023

Objective (s)-

1. To educate people about the balanced diet.
2. To raise and spread nutritional and health awareness in the society.
3. To connect academics and society for improved nutritional and health knowledge
4. To develop skills in culinary art for better enrichment of nutrients.

Description-

On the occasion of National Nutrition Week and Poshan Maah, The Department of Food Technology has initiated Social Outreach Program for Anganwadi Preschool children and their Parents. The main aim of this activity is to create awareness of Health and Nutrition among the rural Community. Mrs. Shweta Patil, HOD of the Food Technology Department briefed about the National Nutrition Week and Poshan Maah and its importance. M.Sc. FSN II students performed a skit based on the awareness of Health and Nutrition among preschool children. Mrs. Yogita Mirajkar, Assit. Prof. Food Technology Department briefed about the balancing diet using the Food pyramid and also explained the concept of My plate.

Target Group – Preschool children and their Parents

Number of Participants- 39 (Parents + Anganwadi Sevikas) + M.Sc. FSN II students 17

Outcomes (s)-

1. Parents have gained knowledge about a balanced diet.
2. The outreach activity was able to spread scientific knowledge of nutrition and health-related issues.
3. Community-based research enabled to critically analyse the problem and provide community-based solutions.
4. Different concepts like Food pyramid and balanced diet were cleared to the parents.

Name and Signature Head of Department/ Committee Coordinator-

Mrs. Yogita R. Mirajkar

Yogita R. Mirajkar

Assistant Professor

Patil



CSIBER Trust's
College of Non-Conventional Vocational Courses for Women,
Kolhapur.

ACTIVITY REPORT

Name of Event/ Activity- Campus Placement by Salgar Foods Pvt. Ltd.

Organizing Department/ Committee- Department of Food Technology

DATE: 02/03/2024

Objective (s)-

1. To provide recruitment to students.
2. To provide exposure to M.Sc. II pursuing students.
3. To build the bridge between industry and academia.

Description-

Salgar Foods Pvt. Ltd. Owned by Mr. Dadu Salgar. Under the Salgar Foods Pvt. Ltd he has about 375 Salgar Amrutatulya Franchise all over the Maharashtra. This Organization requires Food Technologists for Research and Development of New products and for the Quality Evaluator for products which are processed in industry. A team of Food Technologists, Administrative member and HR manager were interviewed M.Sc. FSN II students. At first they had given one activity based on that interview carried out by panel member. Total 06 students are shortlisted for the second round of Interview.

Target Group – M.Sc. (FSN) II Students

Number of Participants- 12

Outcomes (s)-

1. Students have gained knowledge about recruitment process.
2. Students got exposure to interview techniques.
3. Students have got a learning experience during the drive.

Mirajkar

Mrs. Yogita R. Mirajkar

Department Placement In-charge

Patil

Mrs. Shweta A. Patil

HOD

Department of Food Technology
CNCVCW, Kolhapur.



CSIBER TRUST'S
**COLLEGE OF NON-CONVENTIONAL
VOCATIONAL COURSES FOR WOMEN, KOLHAPUR**

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INTERNAL QUALITY ASSURANCE CELL

organizes

One Day National Conference

on

**“Multidisciplinary and Skill-Based Education:
Challenges & Opportunities in NEP 2020”**

CERTIFICATE OF APPRECIATION

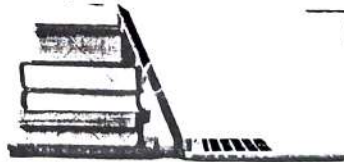
This is to certify that **Ms. Yogita R. Mirajkar** has contributed as a Rapporteur for Technical Session in One day National conference on **“Multidisciplinary and Skill-Based Education: Challenges & Opportunities in NEP 2020”** held on 09-March-2024.

Patil

Ms. Shweta Patil
Organizing Secretary

A. R. Kulkarni

Prof. (Dr.) A. R. Kulkarni
Chairman





महिला व बाल विकास विभाग ,
एकात्मिक बाल विकास सेवा योजना ,कोल्हापूर (नागरी)
बाल विकास प्रकल्प अधिकारी कोल्हापूर (नागरी)
लक्ष्मीपुरी १३९८ सी प्रार्थना हॉटेल दुसरा मजला
Email id cdpo_kolhapur@yahoo.com फोन नं ०२३१-२६४१९२३

जा.क्र./ बाविप्रअको/आस्था /६३२८२०२०-२१

दिनांक :- १७/१०.२०२३

प्रति

श्रीम.योगीता मिरजकर
सहा.प्राध्यापिका डिपार्टमेंट ऑफ फुड टेक्नॉलॉजी,
सी.एन.सी व्ही सी डब्ल्यु ,सायबर कॉलेज,कोल्हापूर

विषय:- अंगणवाडी क्रं ८,९,१४,१५,१६,१७,१८,१९,१२०,१८० शाहूनगर येथील ०६ वर्ष बालकांचे
पालक,गरोदर माता ,स्तनदा माता व किशोरी यांना आहार व पोषण बाबत मार्गदर्शन केलेबाबत.

उपरोक्त विषयान्वये बाल विकास प्रकल्प कोल्हापूर नागरी प्रकल्पातील बीट क्रं २ मधील अंगणवाडी क्रं
८,९,१४,१५,१६,१७,१८,१९,१२०,१८० शाहूनगर येथील ०६ वर्ष बालकांचे पालक,गरोदर माता ,स्तनदा माता व किशोरी
यांना पोषणमाह २०२३ निमित्त आहार व पोषण विषयावर श्रीम.योगीता मिरजकर.सहा.प्राध्यापिका डिपार्टमेंट ऑफ फुड
टेक्नॉलॉजी, सी.एन.सी व्ही सी डब्ल्यु ,सायबर कॉलेज,कोल्हापूर यांनी दि.०८/०९/२०२३ रोजी पथनाटय सादर केले व आहार
व पोषण बाबत मार्गदर्शनही केले.

याबद्दल आपले आभार.असेच मार्गदर्शन वेळोवेळी मिळावे हि विनंती.

(श्री.पी.बी.शिर्के.)

बाल विकास प्रकल्प अधिकारी
कोल्हापूर (नागरी)

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA

PHONE Number : 0231-2609102 0231-2609103 Email: appointment@unishivaji.ac.in

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र

दूरध्वनी क्रमांक : ०२३१-२६०९१०२/०२३१-२६०९१०३ Email: appointment@unishivaji.ac.in



Ref. No.: SU. / APPT. / IEASYS. / 4495

CONFIDENTIAL

Date : 19-OCT-2023 12:10:32

To

1. Ar. Shivraj Ghatge, Kala Prabodhini's Institute of Design, Kolhapur C/O- Bhalaji Pendharkar, kolhapur
Mobile - 9960445357 Email - shivrajg9@gmail.com

Internal Sr. Supervisor

2. Mrs. Yogita Rahul Mirajkar, College of Non-Conventional Vocational Courses for Women S.I.B.E.R.
Kolhapur

Mobile - 9762525349 Email - yogitamirajkar88@gmail.com

External Sr. Supervisor

SUBJECT : Appointment Order INTERNAL / EXTERNAL Sr. SUPERVISOR FOR Oct-2023 Examination

Sir / Madam,

You are hereby appointed as an Internal/External Sr. Supervisor for Oct-2023 for the examination and centre as mentioned below. All are hereby requested to attend the duties in time without fail and report to the Principal / Chief Examination officer. Your Remuneration for the appointment work will be Rs. 120/- Per Session.

Please check the Day/Date/Time with time table strictly and then open the packets of question papers which will be available in the centre.

Name of the Examination	Duration of Appointment	Centre of Exam
Shivaji University Oct-2023 Examination	20-Oct-2023 To 29-Oct-2023	Kala Prabodhini's Institute of Design, Kolhapur C/O- Bhalaji Pendharkar, kolhapur
Shivaji University Oct-2023 Examination	20-Oct-2023 To 29-Oct-2023	Kala Prabodhini's Institute of Design, Kolhapur C/O- Bhalaji Pendharkar,
Shivaji University Oct-2023 Examination	20-Oct-2023 To 29-Oct-2023	Kala Prabodhini's Institute of Design, Kolhapur C/O- Bhalaji Pendharkar, kolhapur
Shivaji University Oct-2023 Examination	20-Oct-2023 To 29-Oct-2023	Kala Prabodhini's Institute of Design, Kolhapur C/O- Bhalaji Pendharkar,



Estd. 1962
Accredited by
NAAC(2021)
Urb CGPA J-22

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA
PHONE Number - 2231-2609102 0231-2609103



शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र
दूरध्वनी क्रमांक - ०२३१-२६०९१०२/०२३१-२६०९१०३

Ref. No.: SU. / APPT. / IEASYS. / 7767

CONFIDENTIAL

Date : 10-APR-2024 02:04:40

To

1. Id Deepak Sanjay Lokare , Deccan Instistute of Technology,Kolhapur Pushpa Appartment, Kolhapur
Mobile - 9579065920 Email - lokaredeepak93@gmail.com
Internal Sr. Supervisor
2. Mrs. Yogita Rahul Mirajkar , College of Non-Conventional Vocational Courses for Women S.I.B.E.R.
Kolhapur
Mobile - 9762525349 Email - yogitamirajkar88@gmail.com
External Sr. Supervisor

SUBJECT : Apoinment Order INTERNAL / EXTERNAL Sr. SUPERVISOR FOR March-2024 Examination

Sir / Madam,

You are hereby appointed as an Internal/External Sr. Supervisor for March-2024 for the examination and centre as mentioned below. All are hereby requested to attend the duties in time without fail and report to the Principal / Chief Examination officer. Your Remuneration for the appointment work will be Rs. 120/- Per Session.

Please check the Day/Date/Time with time table strictly and then open the packets of question papers which will be available in the centre.

Name of the Examination	Duration of Appointment	Centre of Exam
Shivaji University March-2024 Examination	12-Apr-2024 To 22-Apr-2024	Deccan Instistute of Technology,Kolhapur Pushpa Appartment, Kolhapur
Shivaji University March-2024 Examination	12-Apr-2024 To 22-Apr-2024	Deccan Instistute of Technology,Kolhapur Pushpa Appartment, Kolhapur

Most Important Note

- A) Non-acceptance of this order or failure to report on examination duty, will be treated as a examination lapse as per M.P.U.Act. 2016, sect. 48.
- B) In such cases (If any) Deciplianry action will be taken as per provisions in Act/Rules.

Most Important Note

- A) Non-acceptance of this order or failure to report on examination duty, will be treated as a examination lapse as per M P U Act 2016, sect. 48
- B) In such cases (If any) Deciplianry action will be taken as per provisions in Act/Rules

- 7 **A Review on Effect of Milk Obtained from Hormone Injected in Cattle on Children and Adults** 41
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- 8 **Preparation of Organic Colours from Flowers and Leaves for Holi Festival: A Sustainable Approach** 46
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Anagha A. Raut, Assistant Professor, College of Non-Conventional Vocational Courses for Women, CSIBER College Kolhapur, Maharashtra, India
- 9 **Analysis on 3D Printing or Additive Manufacturing in Food Industry** 53
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Prof. Dr. Nisha C. Waghmare, Head, Dept. of Social Work, Walchand College of Arts and Science, Solapur, Maharashtra, India
- 12 **Challenges of Human Resources Development in Non-Profit Organizations** 70
Mr. Javed Saipan Nagare, Dept. of Social Work, Walchand College of Arts & Science, Solapur, Maharashtra, India
Dr. Abhay M. Jadhav, Associate Professor, Dept. of Social Work, Walchand College of Arts & Science, PAH Solapur University, Solapur, Maharashtra, India
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- 14 **Issues and Challenges of CSR for Social Development in India** 82
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- 15 **Health Awareness among Women and its Relation With Covid-19 Effectiveness in Urban Slum Families of Kolhapur** 91
Dr. Urmila P. Dashwant, Assistant Professor, Dept. of YCSR, Shivaji University, Kolhapur, Maharashtra. India

DEVELOPMENT AND FORMULATION OF FASTING (UPWAS) INSTANT MILLET KHEER-MIX

Mrs. Yogita Mirajkar¹

¹Assistant Professor, Department of Food Technology, CNCVCIW, CSIBER, Kolhapur

Ms. Aarohi Moghe², Ms. Ketki Phadnis³, Ms. Nisha Savardekar⁴,

Ms. Geetanjali Marulkar⁵, Ms. Samruddhi Nigade⁶, Ms. Parhina Parande⁷

²PG students, Department of Food Technology, CNCVCIW, CSIBER, Kolhapur

Abstract

Kheer, also known as Payasam is one of the most famous and authentic milk based dessert in India. It is usually made from partial dehydration of milk with sugar and rice or sago. This study was conducted with the objective to develop an instant Kheer mix for fast. We have formulated a Fasting instant millet kheer mix using two of the underutilized millets i.e. proso millet and amaranth. Other ingredients used are desiccated coconut, milk powder, nuts (cashew and almond), garden cress seeds, and powdered sugar. Proso millet is parboiled and amaranth is soaked in warm water to make them easy to cook. The nutritive value of prepared instant millet kheer was energy (404.9 kcal), protein (11.62%), fat (8.73%), carbohydrates (70.31%), and moisture (5.77%). Therefore, the use of these millets used in kheer increases the nutritional value of the product. The kheer with desired consistency was prepared by reconstituting 50g of ready mix in 250 ml of water and further cooking for 15 minutes. The cost of control kheer was found to be the lowest as compared to the other samples. The highest cost was recorded for sample A as Rs. 498.77/Kg, whereas the selected sample cost was Rs. 446.83/kg.

Keywords: Instant kheer mix, proso millet, amaranth, fast, sensory analysis

INTRODUCTION:

Kheer is a traditional Indian dessert conventionally prepared food by partial dehydration of whole milk over direct fire together with sugar and usually rice or semolina^[1]. The development of ready-to-cook mix for several traditional desserts and snack foods is offering convenience to food industries and housewives and is becoming a fast-growing trend among processed foods. Kheer is a highly popular milk based food item in the Indian subcontinent, irrespective of urban and rural areas^[2]. Many milk based convenience foods are available in the market^[3]. But the availability of instant traditional desserts is very less. So, this work was conducted with the objective to develop an instant kheer-mix.

Proso millet (*Panicum miliaceum* L.) is an important cereal and a valuable component of the human diet, particularly in developing countries^[4]. Its grains are mainly used for food in the decorticated form. Traditionally proso millet quality has been evaluated on the basis of nutritional value, such as starch^[5] and crude protein content^[6]. It has several health benefits. It reduces the risk of elevated serum cholesterol^[7], cardiovascular diseases^[8], type II diabetes mellitus^[9] and liver injury^[10]. It contains a good amount of protein and also a very good amount of B complex vitamins such as niacin, biotin, and folic acid. It is also a good source of lecithin. Amaranth is from the family of *Amaranthaceae*. The genus amaranth is mainly comprised of about 400 species among them four important species are *A. hypocondricus*, *A. cruentus*, *A. caudatus*, *A. edulis*^[11]. It is highly nutritious; both the amaranth grain and leaves are utilized for human as well as for animal food^[12]. It has a very good amino acid profile. It has antioxidant, antithrombotic, cholesterol lowering, and immune regulatory properties. The storage proteins of amaranth also have good film forming, foaming, and emulsifying properties as well as good water retention capacity^[13]. Amaranth is easy to digest as it is gluten-free grain. About 90% of amaranth grain is digestible. It is traditionally been used for patients who are recovering from long fasting period or illnesses^[14]. Desiccated coconut is the disintegrated and dehydrated kernel from mature coconuts.

A STUDY ON DEVELOPMENT OF MILLET BASED SNACK FOOD: MULTI MILLET NACHOS

Yogita R. Mirajkar¹ & Sayama Yasin Nalband²

¹ Assistant Professor, Department of Food Technology, CNCVCW, CSIBER, Kolhapur.

² Pg student, department of food technology, CNCVCW, CSIBER, Kolhapur.

Abstract

The study aimed to develop a nutritious snack (multi-millet nachos). Snacks help as a bridge between meals and prevent excessive hunger. Nachos are most commonly consumed snack. Generally nachos are prepared using maize flour and refined wheat flour and are fried. In the present study, nachos were baked using different germinated millets flour (Finger millet, sorghum, proso millet, little millet, kodo millet, foxtail millet) with the addition of Black cumin seed (a natural remedy for a number of illnesses). Millets are gluten free grain and low in glycaemic index, also excellent source of macronutrients like fibre and protein along with vitamins and minerals such as calcium and iron. Soaking and germination improves the nutritional quality of millet grain flour. Black cumin seed is medicinal plant used since ancient times as therapeutic agent for the treatment of various disease. Physico-chemical analysis of multi millet nachos shows 11.42% protein, 68.68% carbohydrates, 235.45mg calcium, 2.60mg iron, 1.71% crude fibre, and 1.40% ash and gives 410.40Kcal energy.

Keywords: Multi millet nachos, germinated millet flours, Black cumin seed, Glycaemic index

INTRODUCTION

Nachos are a Mexican culinary dish consisting of fried tortilla chips covered with melted cheese or cheese sauce, as well as a variety of other toppings. Tortilla chip is a snack food made from maize flour, and refined wheat flour, which is cut into triangles and fried. These are made from maize flour, and refined wheat flour which is high in calories, fat, & sodium making them an unhealthy snack. The main aim of this study is to make it healthier snack and know the health benefits of millet study aimed to prepare multi millet nachos. Nachos were baked products made from both major and minor millet flour (Sorghum, Finger, Proso, Foxtail, Little, Kodo), black cumin seed, salt with herbs and spices (oregano, chili flakes).

Finger millet is rich in iron, calcium, fibre, phosphorous, protein, and vitamins. Ragi has the best quality protein along with the presence of essential amino acids, vitamin A, and phosphorous (1).

Therefore, ragi is the beneficial diet for growing children, expecting women and also for old age people. Traditionally ragi is processed either by malting or fermentation (2).

Sorghum is significant source of protein, energy, and minerals. It contains large number of polyphenolic compounds which combine with other flavonoids (anthocyanin, anthocyanids, etc). It also contains B-complex vitamins (thiamine, niacin, and riboflavin). Despite of nutrient in sorghum grain it also contains anti nutritional factors such as tannin, phytic acid, polyphenol and trypsin inhibitor which bind these food ingredients into the complex making them unavailable to human nutrition (3). The presence of anti-nutritional factors limits the digestibility of protein and carbohydrates by inhibiting their

DEVELOPMENT OF MOODLES SUPPLEMENTED WITH UNDERUTILIZED VEGETABLE LEAVES

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Abstract

Nowadays millets-based products consumption was very low. This study was carried out to increase the consumption of millets with the most common product Noodles. Traditional noodles are usually made from Wheat flour, Water, and Salt. Hence the more use of underutilized millet in the form of ready-to-cook noodles we formulated MOODLES. The moodles are made up of multi millets flour i.e. (Foxtail millet, Kodo millet, Proso millet, Barnyard millet, and Little millet flour) these millets (are soaked overnight) to make them rich in nutrient content. Guar gum was optimized by varying proportions to result in better quality moodles. The nutritive value of prepared moodles was Energy (368.83kcal), Protein (11.89%), Fat (4.55%), Carbohydrates (70.08%), Moisture (10.70%), Fiber (1.11%), Calcium (220mg), Iron (2.70mg). Millets are rich in protein, dietary fiber, and B complex vitamins and minerals. The moodles prepared with multi millets flour increase the nutritional value of the product.

Keywords: Noodles, Vegetable leaves, Multi Millets flour, Moodles, Proximate analysis, and Sensory analysis.

1. Introduction

A ready-to-cook, one-pot meal mix of foods is popular and in demand due to convenience, time-saving, and requires no skill preparation. Nutrition is the key factor to look at such convenience foods. Noodles based on wheat are prepared mainly from three basic ingredients; flour, water, and salt [1]. Generally, noodles are made up of refined wheat flour, hence the more use of underutilized millet in the form of ready-to-cook noodles we formulated Moodles. The moodles were formulated and developed by blending the flour from millets (Foxtail millets, Kodo millet, Barnyard millet, Proso millet, and Little millet) with dehydrated vegetable leaves like Beetroot leaves, Pumpkin leaves, Radish leaves, and other ingredients (Salt, thickening agent, oil) in the optimized proportion. Several trials have been performed by varying the proportion of ingredients. The nutritional significance of different millets is very useful in developing value-added products.

Foxtail millets contain a significant level of Protein, Fiber, Minerals, and Phytochemicals. It is rich in essential amino acids, fatty acids, and minerals and is considered to be one of the most digestible and non-allergenic grains available, and has significantly important human health [2]. Kodo millet is rich in dietary fiber and minerals like iron, and antioxidants. The Protein, Fiber, and Minerals contain are much higher. Kodo millet is an excellent source of fiber [3].

Barnyard millet grain is a good source of Protein, Carbohydrate, Fiber and contain Micronutrients (Iron and Zinc) compared to major cereals. In addition, barnyard millet is also a well-known source of major fatty acids including Palmitic, Linoleic, and Oleic acids [4]. Proso millet has multiple benefits when consumed as human food. Proso millet is rich in minerals, dietary fiber, polyphenols, vitamins, and proteins. Proso millets contain high Lecithin which supports the neutral health system [5]. Little millet