



BRAINWARE UNIVERSITY
SCHOOL OF MEDICAL & ALLIED HEALTH SCIENCE
DEPARTMENT OF FOOD & NUTRITION
BACHELOR OF FOOD, NUTRITION & DIETETICS/
BACHELOR OF FOOD, NUTRITION & DIETETICS (HONOURS) 2024

Annexure 1

Benchmarking of the curriculum

Benchmarking & comparison of curriculum with premium institutions

i. List of universities for curriculum benchmarking.

Name of University	Q S World Ranking	NIRF* Ranking of the university
Calcutta University	801-850	12
University of Calicut	106	70
All India Institute of Medical Science New Delhi	-	1
West Bengal state University	6219	12
Kalyani University	501-550	105-150
University of Kerala	1051-1100	47
Mumbai University	1201-1500	96
Gobind Ballabh Pant University of Agriculture & technology	351-400	79
Andhra University	301-350	76
National Institute Of technology, Durgapur	-	90
Acharya Nagarjuna University	-	63
University of Burdwan	-	86

*Only top 40 institute in respective category to be considered

ii. Benchmarking core/ major curriculum:

Name of University	Calcutta University	University of Calicut	All India Institute of Medical Science New Delhi	West Bengal state University	Kalyani University	University of Kerala	Course offered in BWU Curriculum
QS/NIRF Ranking	801-850/12	106/70	-/1	6219/12	501-550/105-150	1051-1100/47	-
Total No. of Credits	48	4	4	8	8	4	92
Core Courses(Y/N)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name of University	Mumbai University	Gobind Ballabh Pant University of Agriculture & technology	Andhra University	National Institute Of technology, Durgapur	Acharya Nagarjuna University	University of Burdwan	Course offered in BWU Curriculum
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A. Ash
27/5/24

P. Khan
27/5/24



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QS/NIRF Ranking	1201-1500/96	351-400/79	301-400/76	-/90	-/63	-/86	-
Total No. of Credits	12	4	4	8	3	12	92
Core Courses(Y/N)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

iii. **Benchmarking elective/minor curriculum:**

Name of University	Calcutta University	University of Calicut	All India Institute of Medical Science New Delhi	West Bengal state University	Kalyani University	University of Kerala	Course offered in BWU Curriculum
QS/NIRF Ranking	801-850/12	106/70	-/1	6219/12	501-550/105-150	1051-1100/47	-
Total No. of Credits	20	4	8	4	4	8	32
Core Courses(Y/N)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name of University	Mumbai University	Gobind Ballabh Pant University of Agriculture & technology	Andhra University	National Institute Of technology, Durgapur	Acharya Nagarjuna University	University of Burdwan	Course offered in BWU Curriculum
QS/NIRF Ranking	1201-1500/96	351-400/79	301-400/76	-/90	-/63	-/86	-
Total No. of Credits	8	4	4	8	4	8	32
Core Courses(Y/N)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Annexure 2

Discussion & recommendation on curriculum composition

Sl. No.	Summary	Number	Credit Weightage (if applicable)
1	Course to implement STEAM	36	140
2	Course targeting SDGs	17	64
3	Number of Employability/ entrepreneurship/ skill development Courses & their credit share(%)	19	42%
4	Number of major courses offered and their credit share(%)	22	58%
5	Number of minor courses offered and their credit share (%)	8	20%
6	Number of multidisciplinary/interdisciplinary courses offered and their credit share(%)	3	6%



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7	Number of ability enhancement courses offered and their credit share(%)	4	5%
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A. Inculcating intelligences as recommended in NEP 2020 towards holistic education

Course Type	Course Code	Course Title	Credits
Academic Intelligence	BFD17101	Human Physiology I	118
	BFD27102	Human Physiology II	
	BFD20202	Childhood Disability and Social Action	
	BFD20001	General Microbiology	
	BFD20002	Mushroom Cultivation	
	BFD37103	Food Science	
	BFD30104	Nutrition through Life Span	
	BFD30203	Food Service Management	
	BFD47105	Food Commodities	
	BFD47106	Nutritional Biochemistry- I	
	BFD40107	Functional Food and Nutraceuticals	
	BFD57108	Nutritional Biochemistry- II	
	BFD57109	Community Nutrition	
	BFD57110	Food Microbiology	
	BFD50205	Sports Nutrition	
	BFD67111	Therapeutic Nutrition	
	BFD67112	Food Processing, Preservation and Quality Control	
	BFD67113	Public Health	
	BFD60206	Dietetic Education on Diabetes	
	BFD77114	Nutrition Therapy	
	BFD70115	Nutrition in Critical Care	
	BFD70116	Diet Counselling and Patient Care	
	BFD70117	Spices and Condiments and their Health Effects	
	BFD77118	Product Development and Sensory Evaluation	
	BFD70207	Pediatric Nutrition	
	BFD87119H	Dairy Technology	
	BFD80120H	Food Laws, Standards and Food Audits	
	BFD80122H	Dietetic Education on Oncology	
	BFD80208H	Inborn Error of Metabolism and their Dietary Management	
Aesthetic Intelligence	BFD30001	Indian Health Sciences	7
	BFD40204	Indian Agriculture	
Citizenry	VAC00006	Environmental Studies	5
	BFD30002	Human Development	
Ethical Intelligence	VAC00007	Human Value and Ethics	2
Physical Intelligence	VAC09016	Yoga	2



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Societal & Emotional Intelligence	BFD10201	Human Behavior and Family Management	21
	AEC00005	Functional English	
	BFD10002	Soft Skills	
	AEC00002	Communicative English	
	VAC00005	Digitalization and its Impact	
	AEC09001	Communicative English Lab	
	AEC00006	Modern Indian Language	
		A. Hindi	
		B. Bengali	
		C. Alternative English	
	BFD80121H	Community Extension Education	
Spiritual Intelligence	BFD10001	Holistic Health and Happiness	3

B. List of courses to implement STEAM

Component of STEM	Course Code	Course Title	Credits	Total Credits
Science	BFD17101	Human Physiology I	4	124
	BFD10201	Human Behavior and Family Management	4	
	BFD10001	Holistic Health and Happiness	3	
	VAC00006	Environmental Studies	2	
	BFD27102	Human Physiology II	4	
	BFD20202	Childhood Disability and Social Action	4	
	BFD20001	General Microbiology	3	
	BFD20002	Mushroom Cultivation	3	
	VAC00005	Digitalization and its Impact	2	
	BFD37103	Food Science	4	
	BFD30104	Nutrition through Life Span	4	
	BFD30203	Food Service Management	4	
	BFD30001	Indian Health Sciences	3	
	BFD47105	Food Commodities	6	
	BFD47106	Nutritional Biochemistry- I	6	
	BFD40107	Functional Food and Nutraceuticals	2	
	BFD40204	Indian Agriculture	4	
	BFD57108	Nutritional Biochemistry- II	4	
	BFD57109	Community Nutrition	4	
	BFD57110	Food Microbiology	6	
	BFD50205	Sports Nutrition	4	
	BFD67111	Therapeutic Nutrition	4	
	BFD67113	Public Health	6	
	BFD60206	Dietetic Education on Diabetes	4	
	BFD77114	Nutrition Therapy	4	
	BFD70115	Nutrition in Critical Care	2	
	BFD70116	Diet Counselling and Patient Care	4	



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	BFD70117	Spices and Condiments and their Health Effects	2	
	BFD70207	Pediatric Nutrition	4	
	BFD80120H	Food Laws, Standards and Food Audits	2	
	BFD80121H	Community Extension Education	4	
	BFD80122H	Dietetic Education on Oncology	4	
	BFD80208H	Inborn Error of Metabolism and their Dietary Management	4	
Technology	BFD67112	Food Processing, Preservation and Quality Control	6	16
	BFD77118	Product Development and Sensory Evaluation	4	
	BFD87119H	Dairy Technology	6	
Engineering	-	-	-	-
Arts	-	-	-	-
Mathematics	-	-	-	-

C. List of courses mapped with SDGs

Course Code	Course Name	L	T	P	C	Semester	Course Category (Core/Elective/Major/Minor/GE/MOOCs/VAC...)	SDG Targeted
BFD17101	Human Physiology I	3	0	2	4	Sem I	Major	GDG-3
BFD10001	Holistic Health and Happiness	3	0	0	3	Sem I	IC	GDG-3
BFD27102	Human Physiology II	3	0	2	4	Sem II	Major	GDG-3
BFD30104	Nutrition through Life Span	4	0	0	4	Sem III	Major	GDG-3
BFD30001	Indian Health Sciences	3	0	0	3	Sem III	IC	GDG-3
BFD57109	Community Nutrition	2	0	4	4	Sem V	Major	GDG-3
BFD57110	Food Microbiology	4	0	4	6	Sem V	Major	GDG-3
BFD50205	Sports Nutrition	4	0	0	4	Sem V	Minor	GDG-3
BFD58001	Internship/Project	0	0	0	2	Sem V	IAPC	GDG-9
BFD67111	Therapeutic Nutrition	2	0	4	4	Sem VI	Major	GDG-3
BFD60206	Dietetic Education on Diabetes	4	0	0	4	Sem VI	Minor	GDG-3
BFD77114	Nutrition Therapy	2	0	4	4	Sem VII	Major	GDG-3
BFD70115	Nutrition in Critical Care	2	0	0	2	Sem VII	Major	GDG-3
BFD70116	Diet Counselling and Patient Care	4	0	0	4	Sem VII	Major	GDG-3
BFD70207	Pediatric Nutrition	4	0	0	4	Sem VII	Minor	GDG-3
BFD80122H	Dietetic Education on Oncology	4	0	0	4	Sem VIII	Major	GDG-3
BFD80208H	Inborn Error of Metabolism and their Dietary Management	4	0	0	4	Sem VIII	Minor	GDG-3
Total Credits								64

D. List of IKS (Indian Knowledge Systems)

Course Code	Course Name	L	T	P	C	Semester	Course Category (IKS)
BFD30001	Indian Health Sciences	3	0	0	3	Sem III	IC
BFD40204	Indian Agriculture	4	0	0	4	Sem IV	Minor



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E. List of MIL (Modern Indian Language)

Course Code	Course Name	L	T	P	C	Semester	Course Category (MIL)
AEC00006	Modern Indian Language A. Hindi B. Bengali C. Alternative English	2	0	0	2	Sem – IV	AEC
Total Credits : 2							

F. List of Inter Disciplinary/ multidisciplinary Courses

Course Code	Course Name	L	T	P	C	Semester	Course Category (Core/Elective/Major/Minor /GE/MOOCs/VAC...)
BFD10001	Holistic Health and Happiness	3	0	0	3	Sem I	IC
VAC00006	Environmental Studies	2	0	0	2	Sem I	VAC
VAC09016	Yoga	0	0	4	2	Sem I	VAC
BFD20001	General Microbiology	3	0	0	3	Sem II	IC
VAC00007	Human Value and Ethics	2	0	0	2	Sem II	VAC
VAC00005	Digitalization and its Impact	2	0	0	2	Sem II	VAC
BFD30001	Indian Health Sciences	3	0	0	3	Sem III	IC
Total Credits : 17							

G. Details about minors & Specializations offered:

Course Name	Credits	Prerequisites	Year of starting of minor
Human Behavior and Family Management	4	10 +2 Nutrition /Biology	2023
Childhood Disability and Social Action	4	Human Physiology-I	2023
Food Service Management	4	10 +2 Nutrition /Biology.	2023
Indian Agriculture	4	Knowledge of previous courses	2023
Sports Nutrition	4	Human Nutrition and Human physiology.	2023
Dietetic Education on Diabetes	4	Nutrition Therapy	2023
Pediatric Nutrition	4	Nutrition through Lifespan	2023
Inborn Error of Metabolism and their Dietary Management	4	Nutritional Biochemistry	2023



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H. Courses having focuses on Employability/ entrepreneurship/ skill development:

Course Code	Course Name*	L	T	P	C	Sem	Year of introduction	Activities/ Content with direct bearing on Employability/ entrepreneurship/ skill development
BFD10002	Soft Skills	3	0	0	3	Sem I	2023	Skill development - enhance interpersonal, communication, and professional skills
AEC00002	Communicative English	2	0	0	2	Sem II	2023	Skill development- Ability to effectively convey and understand information in a professional setting.
BFD20002	Mushroom Cultivation	3	0	0	3	Sem II	2023	Entrepreneurship Equip for growing mushrooms, potentially for self-employment or farm work.
BFD30203	Food Service Management	4	0	0	4	Sem III	2023	Entrepreneurship -equip with the skills to run a restaurant or food service operation.
AEC09001	Communicative English Lab	0	0	4	2	Sem III	2023	Skill development- Ability to effectively convey and understand information in a professional setting.
BFD57109	Community Nutrition	2	0	4	4	Sem V	2023	Employability in public health, education, and community food programs.
BFD50205	Sports Nutrition	4	0	0	4	Sem V	2023	Employability in athletic organizations, fitness centers
BFD67111	Therapeutic Nutrition	2	0	4	4	Sem VI	2023	Employability in hospitals, clinics, public health facilities, and food service companies.
BFD67112	Food Processing, Preservation and Quality Control	4	0	4	6	Sem VI	2023	Employability in ensuring food safety and creating longer-lasting food products.
BFD67113	Public Health	4	0	4	6	Sem VI	2023	Employability in public health, education, and community food programs.
BFD60206	Dietetic Education on Diabetes	4	0	0	4	Sem VI	2023	Employability as a diabetic educator
BFD77114	Nutrition Therapy	2	0	4	4	Sem VII	2023	Employability in hospitals, clinics, public health facilities, and food service companies.
BFD70115	Nutrition in Critical Care	2	0	0	2	Sem VII	2023	Employability in hospitals
BFD70116	Diet Counselling and Patient Care	4	0	0	4	Sem VII	2023	Employability in hospitals, clinics, public health facilities
BFD77118	Product Development and Sensory Evaluation	2	0	4	4	Sem VII	2023	Employability in in the food and beverage industry.
BFD70207	Pediatric Nutrition	4	0	0	4	Sem VII	2023	Employability in hospitals, clinics, public health facilities, and food service companies.



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BFD87119H	Dairy Technology	4	0	4	6	Sem VIII	2023	Employability in processing, production, and research of dairy products.
BFD80121H	Community Extension Education	4	0	0	4	Sem VIII	2023	Employability in public health, education, and community food programs
BFD80122H	Dietetic Education on Oncology	4	0	0	4	Sem VIII	2023	Employability in oncology nutritionist

*Name of Employability/ entrepreneurship/ skill development

I. List of Course added

Course Code	Course Name	Type	L	T	P	C	Rationale of adding new courses
-	-	-	-	-	-	-	-

J. List of Course dropped

Course Code (as per previous syllabus)	Course Name	Type	L	T	P	C	Rationale of adding new courses
-	-	-	-	-	-	-	-

K. List of content changes and experiment changes and list of new equipment recommended

Course Code	Course Name	Title of new content or experiment added	Rationale for introducing new contents/ experiments	New infrastructure (equipment/ICT/Software etc.) required
-	-	-	-	-

L. List of Books/ e-books/ Journals Recommended

Course Code	Course Name	Recommended Books/ e-books/ Journals	Available copies in library	Nos. of copies additionally required
BFD17101	Human Physiology I	Chatterjee, C.C. 2022. Text Book of Physiology, Vol I & II, 14 th Edition. CBS Publishers and Distributors Pvt Ltd.	Yes	-
BFD10201	Human Behavior and Family Management	Family Interaction: A Multigenerational Developmental	No	5



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		Perspective. Anderson, S. A. (1999) Boston, MA: Allyn and Bacon.		
BFD27102	Human Physiology II	Chatterjee, C.C. 2022. Text Book of Physiology, Vol I & II, 14 th Edition. CBS Publishers and Distributors Pvt Ltd.	Yes	-
BFD20202	Childhood Disability and Social Action	Early Detection of Disabilities and persons with disabilities in the community, Chopra G, Engage publications, New Delhi.	No	5
BFD20002	Mushroom Cultivation	Pathak, V. N. and Yadav, N. (1998). Mushroom Production and Processing Technology. Agrobios, Jodhpur	yes	3
BFD37103	Food Science	Srilakshmi B (2017): Nutrition Science, 6th Multicolour Ed. New Age International (P) Ltd.	yes	-
BFD30104	Nutrition through Life Span	Srilakshmi B (2014): Dietetics, 7th Multicolour Ed. New Age International (P) Ltd.	yes	-
BFD30203	Food Service Management	Khan MA (1987): Food Service Operations, Avi Publication Co.	No	5
BFD30001	Indian Health Sciences	The Complete Book of Yoga - Swami Vivekananda.	No	5
BFD30002	Human Development	Hurlock, E.B. (2007). Developmental psychology: A life span approach. New Delhi: Tata McGraw – Hill.	No	5
BFD47105	Food Commodities	Srilakshmi B., (2018): Food Science, 7th Colour Ed. New Age International (P) Ltd.	Yes	-
BFD47106	Nutritional Biochemistry- I	Harper's Biochemistry, Murray RK, Bender DA, Botham KA, Mayes PA and Rodwell VW, Lange Medical Book, 30th	Yes	-
BFD40107	Functional Food and Nutraceuticals	Introduction to Functional Foods and Nutraceuticals, Rekha Sharma	No	5
BFD57108	Nutritional Biochemistry- II	Harper's Biochemistry, Murray RK, Bender DA, Botham KA, Mayes PA and Rodwell VW, Lange Medical Book, 30th Ed, 2015.	Yes	-
BFD57109	Community Nutrition	Textbook of Community Nutrition. Suryatapa Das. Academic Publishers.	No	5
BFD57110	Food Microbiology	Food Microbiology, Frazier WC and Westhoff D C and Vanitha NM (2017), 5th Ed. McGraw Hill Education	No	5



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BFD50205	Sports Nutrition	Dietetics, B.Srilakshmi, New Age Publication	Yes	-
BFD67111	Therapeutic Nutrition	Dietetics, B.Srilakshmi, New Age Publication	Yes	-
BFD67112	Food Processing, Preservation and Quality Control	Food processing and preservation, Subalakshmi, G and Udipi, New Age International Publishers, New Delhi, 2nd Ed, 2001.	No	5
BFD67113	Public Health	Park's Textbook of preventive and Social Medicine, K.Park, 9th edition. M/s. Banarasidas Bhanot. Jabalpur.	Yes	-
BFD60206	Dietetic Education on Diabetes	Harrison's Principles of Internal Medicine, 20e. J. Larry Jameson, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, Dan L. Longo, Joseph Loscalzo.	No	5
BFD77114	Nutrition Therapy	Dietetics, B.Srilakshmi, New Age Publication	Yes	-
BFD70115	Nutrition in Critical Care	. Nutritional in critical care, Zaloga, G.P., Times Mirror/Mosby.	No	5
BFD70116	Diet Counselling and Patient Care	Dietetics, B.Srilakshmi, New Age Publication	Yes	-
BFD70117	Spices and Condiments and their Health Effects	Food Science: B.Srilakshmi, New Age Publication.	Yes	-
BFD77118	Product Development and Sensory Evaluation	Sensory Evaluation of Foods: Principles and Practices. Harry Lawless and Hildegard Heymann. New York: Chapman and Hall. 1998.	No	-
BFD70207	Pediatric Nutrition	William's Basic Nutrition and Diet Therapy, Staci Nix, 6th Edition, Elsevier.	Yes	-
BFD87119H	Dairy Technology	Outlines of Dairy Technology, De Sukumar, Oxford University Press, Oxford, 2007.	No	5
BFD80120H	Food Laws, Standards and Food Audits	Food Safety and Standards Act 2006, Rules 2011, Regulations 2011, International Law Book Company	No	5
BFD80121H	Community Extension Education	Public administration and rural development, Ganjam R. P. and Anoop Sharma, Crescent Publishing Corporation, New Delhi.	No	5



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BFD80122H	Dietetic Education on Oncology	Nutrition in the Prevention and Treatment of Disease, Ann M. Coulston, Carol J. Boushey, Mario Ferruzzi, Academic Press.	No	5
BFD80208H	Inborn Error of Metabolism and their Dietary Management	Krause's Food and Nutrition Therapy. Mahan LK and Escott-Stump S. 12th Ed. WB Saunders Company, London.	Yes	4

M. List of co-curricular activities (conducted)

Sl. No.	Name of Event	Mode (online/Offline)	Start date	End Date	Type	Internal participants	Open to external participants (Yes/No)	If yes, no. of external participants	Name of external agency involved
1.	Nourishing Insights and Innovative Problem Solving: A Visit to Parle-G	Offline	19-8-2023	19-8-2023	Industry Visit	35	No		IIC
2.	Sustainable Agriculture Towards Food Security	Offline	12-10-2023	12-10-2023	Seminar	300	No		

N. Students participations in events outside the university

Sl. No.	Name of Event	Mode (online/Offline)	Host Organization	Location of event	Date	No. of students participated	Winning Position if any
1.	Workshop on Packaging Principles Unfolding Opportunities for Career and Beyond	Offline	Indian Institute of Packaging, Kolkata	Indian Institute of Packaging, Kolkata	13-5-2024	1	N/A
2.	AMOCCE icon	Offline	Research Society for The Study of Diabetes in India	Novotel, Kolkata	7-04-2024	4	N/A
3.	Recipe Competition- World Kidney Day Celebration	Offline	CMRI Hospital	CMRI Hospital, Kolkata	20-3-2024	5	NO
4.	Poster and Doodle Art Competition for UG level- Rashtriya Poshan Maah 2023 Celebration	Online	IAPEN India Association, Kolkata Chapter	N/A	September 2023	10	4 th



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5.	7 TH Annual Conference of Society for Nutrition and Dietetics	Offline	Society for Nutrition and Dietetics	Middilton Street, Kolkata	30-10-2022	10	No
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Annexure 3

a. Mapping of courses to higher order BT (Blooms' Taxonomy) levels

Course Code	Course Name	BT level targeted	Mode of assessment
BFD17101	Human Physiology I	K5, K6	Summative
BFD10201	Human Behavior and Family Management	K5, K6	Summative
BFD27102	Human Physiology II	K5, K6	Summative
BFD20202	Childhood Disability and Social Action	K5, K6	Summative
BFD20002	Mushroom Cultivation	K5, K6	Summative
BFD37103	Food Science	K5, K6	Summative
BFD30104	Nutrition through Life Span	K5, K6	Summative
BFD30203	Food Service Management	K5, K6	Summative
BFD30001	Indian Health Sciences	K5, K6	Summative
BFD30002	Human Development	K5, K6	Summative
BFD47105	Food Commodities	K5, K6	Summative
BFD47106	Nutritional Biochemistry- I	K5, K6	Summative
BFD40107	Functional Food and Nutraceuticals	K5, K6	Summative
BFD57108	Nutritional Biochemistry- II	K5, K6	Summative
BFD57109	Community Nutrition	K5, K6	Summative
BFD57110	Food Microbiology	K5, K6	Summative
BFD50205	Sports Nutrition	K5, K6	Summative
BFD67111	Therapeutic Nutrition	K5, K6	Summative
BFD67112	Food Processing, Preservation and Quality Control	K5, K6	Summative
BFD67113	Public Health	K5, K6	Summative
BFD60206	Dietetic Education on Diabetes	K5, K6	Summative
BFD77114	Nutrition Therapy	K5, K6	Summative
BFD70115	Nutrition in Critical Care	K5, K6	Summative
BFD70116	Diet Counselling and Patient Care	K5, K6	Summative
BFD70117	Spices and Condiments and their Health Effects	K5, K6	Summative
BFD77118	Product Development and Sensory Evaluation	K5, K6	Summative
BFD70207	Pediatric Nutrition	K5, K6	Summative
BFD87119H	Dairy Technology	K5, K6	Summative
BFD80120H	Food Laws, Standards and Food Audits	K5, K6	Summative
BFD80121H	Community Extension Education	K5, K6	Summative
BFD80122H	Dietetic Education on Oncology	K5, K6	Summative
BFD80208H	Inborn Error of Metabolism and their Dietary Management	K5, K6	Summative

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