Central Instrumentation Facility

The following facility are available for internal and external user on payment basis as mentioned below in different center and department.

Center of Food Technology:

Facility In charge: Prof. Neelam Yadav

Email id: neelamyadav@allduniv.ac.in
neelam_aidu@yahoo.com

S.No.	Food Products / Parameters	Duration	FARL Charges (Rs.)
1.	Moisture content	2 days	250
2.	Carbohydrate (by difference method)* /protein, fat, moisture, ash, crude fibre.	7 days	200/3000
3.	Energy* (by calculation method)/ Carbohydrate((by difference method)* /protein, fat, moisture, ash, crude fibre	7 days	200/3100
4.	Protein content	2 days	700
5.	Fat content	2 days	700
6.	Total ash	2 days	500
7.	Dietary fibre(Enzymatic gravimetric method) protein, ash	7 days	2500
8.	Acid insoluble ash/Sulphated ash	2 days	500
9.	Reducing sugar	2 days	600
10.	Alcoholic acidity	2 days	500
11.	Titrable acidity as citric acid	2 days	400
12.	Vitamins C (titration method)	3 days	750
13.	Acid value of fat	2 days	500
14.	Salt content/ NaCl (mohar method)	2 days	400
15.	Crude fibre	2 days	700
16.	Wet gluten/ Dry gluten /Both	2 days	300/400/600
17.	LAB colour	2 days	400
18.	Preservative i.e Benzoic acid or sulphur-di-oxide	3days	750
19.	Total Solids	2 days	400
20.	Total sugar,(reducing sugar/ non-reducing sugar)[lane and eynon method]	5 days	800
21.	T.S.S(degree brix)	1 day	400
22.	pH	1 day	300
23.	Beta-carotene	5 days	1600
24.	Water activity	2 days	400
25.	Estimation of FFA value	1 day	400
26.	Minerals (Fe,Ca,P; analyze by UV)	3 days	500
27.	Texture profile analysis with Graph	2 days	1500
28.	Texture analysis (Paramters wise)	2 days	500
29.	Iodine value	2 days	700
30.	Peroxide value/ Rancidity Meq. of peroxide/ Kg	2 days	700
31.	Refractive index	1 day	400
32.	Acid value/ FFA	2 days	500
33.	Saponification value (FSSAI LAB MANUAL-2)	2 days	500

S.No.	Food Products / Parameters	Duration	FARL Charges (Rs.)
34.	Unsaponifiables (FSSAI LAB MANUAL-2)	3 days	500
35.	Mineral Oil Qualitative Test	2 days	250
36.	Argemone Oil Qualitative Test(FSSAI LAB MANUAL-2)	2 days	250
37.	Moisture of oil (FSSAI Lab Manual 2) (3.0)	2 days	250
	Microbiological examination		
38.	Total Plate count	5 days	750
39.	Yeast & Mould	5 days	750
40.	Coliform	5 days	1000
41.	*E.coli*	5 days	1000
42.	*Salmonella*	5 days	850
43.	*Shigella*	5 days	850
44.	*Staphylococcus aureus*	5 days	850
45.	Antimicrobial Activity	5 days	2000
	Water		
46.	Alkalinity	1 day	400
47.	Total Hardness	1 day	500
48.	Turbidity	1 day	350
49.	Total Solids	2 days	400
50.	Total dissolved solids	2 days	400
51.	Carbonate and bicarbonate	1 day	500
52.	Chloride	1 day	500
53.	Residual Chlorine	1 day	600
54.	Conductivity	1 day	350
55.	Salinity	1 day	350
56.	pH	1day	300
57.	Nitrate	2days	600
58.	Nitrite	2days	600
59.	Metals (AAS method)	4 days	700 each
	Adulteration in milk		
60.	Detection of Cane Sugar	2 days	200
61.	Detection of Starch	2 days	200
62.	Detection of Cellulose	2 days	200
63.	Detection of added Urea	2 days	200
64.	Detection of Ammonium Sulphate	2 days	200
65.	Detection of Sodium Chloride	2 days	200
66.	For presence of Saccharin	2 days	200
67.	Neutralizer ($NaOH/NaHCO_3/Na_2CO_3$)	2 days	200
68.	H_2O_2(FSSAI Lab Manual 1)	2 days	200
69.	For Skimmed milk Powder	2 days	200
70.	For Quaternary ammonium compounds (detergents)	2 days	200
	Adulteration in spices		
71.	Detection of powdered bran and saw dust in ground spices	2 days	200
72.	Detection of Dung powder	2 days	200
73.	Detection of Common salt	2 days	200
74.	Detection of Brick powder grit, sand, dirt, filth	2 days	200
75.	Detection of Water soluble coal tar colour	2 days	200
76.	Detection of Oil soluble coal tar colour	2 days	300
77.	Detection of adulteration of color in ground spices	2 days	300
78.	Detection of papaya seeds / light berries (for black pepper)	2 days	200
79.	Detection of adulteration of color in ground spices (For turmeric powder)	2 days	300
80.	Lactose	3 days	1000
81.	SNF	4 days	400

S.No.	Food Products / Parameters	Duration	FARL Charges (Rs.)
82.	Foreign material	1 day	300
83.	Synthetic color	1 day	350
84.	Metanil Yellow	1 day	350
85.	Khesari daal	1 day	400
86.	Lead chromate (FSSAI Lab Manual method)	1 day	200
87.	TLC(Thin Layer Chromatography)	1 day	500
88.	Tannin (Folin Denis Method)	3 days	1500
89.	Antioxidant DPPH/FRAP	3 days	2500
90.	Total Flavonoid(Spectrophotometric method)	3 days	2000
91.	Phytate content ((Folin-Ciocalteu's Method)	3 days	800
92.	Total phenolic Content (Sadasivam method	3 days	800
93.	Lyophilization	3 days	1500/sample
94.	Bioscan Run for analysis of Carbohydrate	3-5 days	3000/sample

Note:

- If analysis of only carbohydrates will be carried out, cost of proximate analysis will be charged.
- *If all the parameters of proximate analysis is done then Cost of carbohydrates (by difference method) & energy (by calculation method) will be charged Rs 200/- each.
- Students/scholars and Academicians from Universities/Institutions are eligible for a 20% discount on Testing.
- Charges effective from 01.05.2022

S.No.	Equipment	Optional Package	Parameter Included	Testing Charges/sample
1.	**ICP-OES***	01 Element	**Any one**	**800/-**
		01 Heavy Metal	**Any one**	**1000/-**
		ICM-101	**24 elements** (Al, Ba, Be, B, Bi, Cd, Ca, Cr, Co, Cu, Ga, Fe, Pb, Li, Mg, Mn, Ni, K, Se, Na, Sr, Tl, Te and Zn)	**4000/-**
		ICM-102	**19 elements** (Al, Ba, Be, Bi, B, Cd, Cr, Co, Cu, Ga, In, Fe, Pb, Mn, Ni, Ag, Sr, Tl and Zn)	**4000/-**
		ICM-103	**23 elements** (Al, Ba, Bi, B, Cd, Ca, Cr, Co, Cu, Ga, In, Fe, Pb, Li, Mg, Mn, Ni, K, Ag, Na, Sr, Tl and Zn)	**4000/-**
		ICM-105	**9 elements** (As, Be, Cd, Cr, Pb, Hg, Ni, Se and Tl)	**4000/-**
2	**Tintometer**		Colour	**500/-**

3	**BOD Analyzer**		BOD Anlaysis	**500/-**
4	**COD Analyzer**		COD Analysis	**500/-**
5	**RVA**		Starch analysis	**1000/-**

Faculty In-charge	**S.N**	Equipment/Facility available and its application	Charges (if, any)	**Remark (if, any)**
Prof. Neelam Yadav	**1**	Gas Chromatography	3000/sample	**(Instrumentation Lab)-FARL**
	2	HPLC	2500/sample	
	3	Bioscan Unit	*	
	4	Probe Sonicator	300/ sample/day	
	5	ICP -OES	*	
	6	Tintometer	*	
	7	Rapid viscoanalyser	*	
	8	UV-VIS Spectrophotometer	100/sample	
	9	COD Analyser	*	
	10	AAS with Chiller	*	
	11	Falling No. Equipment		
	12	Cooling centrifuge	200/sample	
Dr. Pinki Saini	**13**	Microscope (100x)	100/ sample	**(Microbiology Lab)-FARL**
	14	pH meter	*	
	15	Hot Air oven	300/ sample per tray	
	16	Microbial count	*	
Dr. Devinder Kaur	**17**	Pasta Making with drawing	500/sample (approx 200 gm)	**(Food Processing Lab)**
	18	Rice Milling Machine	100/sample	

	19	Rice Grader	100/sample	
	20	Bread Slicer	100/sample	
	21	Rice Polisher	100/sample	
	22	Rice Grinder	100/sample	
	23	Baking Oven	200/sample	
	24	Modified Atmospheric Packaging Machine	300/sample	
Dr. Pinki Saini	**25**	Kel Plus protein Unit	*	**(Advanced Analytical lab)-FARL**
	26	Socs Plus	*	
	27	Fibretech (Cold extractor, Hot plate)	*	
	28	Vacuum Oven	300/ sample per tray	
	29	Gerber centrifuge	*	
	30	Deep Freezer	100/sample/day	
	31	Laboratory Centrifuge fitted with digital RPM indicator	200/sample	
	32	Water Activity meter	*	
	33	Rotary Evaporator	200/ sample/day	
	34	Homogenizer	100/sample	
	35	Microwave Muffle furnace	500/sample	
	36	Dietary fiber unit	*	
	37	BOD Incubator	200/sample/day	

Center of Biotechnology: Following facility available on the payment of user charge mentioned in the below table.

Facility In-charge: Dr. Awadh Bihari Yadav

Table No.

S.No.	Equipment/Facility available and its application	Charges (External User)	Charges (Internal User)	Contact Details
1	Zeta Sizer (Malvern ZS90)	₹500	₹400	Email:awadhyadav@allduniv.ac.in Contact no:
2	Multimode Plate Reader (HTX Biotek USA)	₹400	₹300	
3	Antibacterial Assay(compound screening)	₹2000	₹1500	
4	Antibiofilm Assay (compound screening)	₹2000	₹1500	
5	Anticancer Assay(compound screening)	₹2000	₹1500	
6	HPLC (Shimadzu)	₹1500	₹1000	

Centre of behavioral and Cognitive Sciences (CBCS)

Facility In-charge: Prof. Bhoomika R Kar

S.N.	**Equipment/Facility available and its application**	**Charges (External User)**	**Charges (Internal User)**	**Contact Details**
1	3 Tesla fMRI Scanner (National Neuroimaging Facility, registered on I-STEM portal)	₹5000 per scan	-	Email: bhoomika@allduniv.ac.in Contact no: 9935974823 (Contact person for proposal submission by

				external users)

Department of Biochemistry:

Facility in charge: Prof. S. I. Rizvi

S.No.	Equipment/test	Charge	Contact Person detail
1	Chemidoc MP Imaging System	Contact Facility In charge	Email id: sirizvi@gmail.com
2	Droplet digital PCR (Biorad)	Contact Facility In charge	Email id: sirizvi@gmail.com