#### SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL

#### (Deemed University under MHRD, Govt. of India)

Subject: Remedial Classes of FTT-524 (FLUID FLOW OPERATIONS AND RHEOLOGY)

This is to inform to the undermentioned students of B.E. Food Technology (B.E, Food Technology (Degree 2016 Four Years & Leet 2017) that the results of FTT-524 (FLUID FLOW OPERATIONS AND RHEOLOGY) examination, was declared on 20<sup>th</sup> June 2018 and the following students could not clear the examination:

S.No	Name of the student	Roll No
1	ABHIJIT SARKAR	1731074
2	SNAHENDU KAR	1731079
3	SUJAY SAGUN GAWA	1731082
4	HARE KRISHNA KUMAR	1731084
5	DEEPAK KASHYAP	1731913
6	KAJAL	1731911
7	ABHISHEK KUMAR CHOUDHARY	1731925
8	HARPREET SINGH	1731926
9	UDITA SINGH	1731928
10	BHAVINDER SHARMA	1731930
11	MUKUL KUMAR CHAUHAN	1731933
12	PRASHANT RANJAN	1731934
13	SHASHI PRAKASH	17317937
14	ANAI. PUSHP	1731940
15	MD. SAIF RIAZ ANSARI	1731941
16	KUNDAN RAJ	1731942
17	SAURABH SRIVASTAVA	1731945

To provide an opportunity for these students to improve their understanding and performance in the subject, the Department of Food Technology has decided to conduct remedial classes for FTT-524 in the upcoming semester.

Course Code: FTT-524

Course Name: FLUID FLOW OPERATIONS AND RHEOLOGY

Faculty: Dr. NAVDEEP JINDAL

Class Schedule: from 4: 30 onwards and on Saturdays

The venue of the classes will be communicated to you soon.

All the concerned students mentioned above are requested to get in touch with the undersigned to confirm their attendance for the remedial classes.

We strongly encourage the identified students to avail themselves of this opportunity to enhance their understanding of the subject and improve their academic performance.

Associate Prof. (FET)

CC: HOD (FET) -For kind information Notice Board

# SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL

# (Deemed University under MHRD, Govt. of India) REPORT ON THE REMEDIAL CLASSES OF

### **B.E. Food Technology**

(Degree 2016 Four Years & Leet 2017)

#### **OF SUBJECT**

## FTT-524 (FLUID FLOW OPERATIONS AND RHEOLOGY)

This report aims to analyze the reasons for the failure of students in the course FTT-524: Fluid Flow Operations and Rheology, during the 4th semester. The course is a part of the curriculum for the Food Engineering program and covers essential topics related to fluid mechanics and rheology. The report will discuss the challenges faced by students in this course and recommend potential improvements to enhance learning outcomes.

#### 2. Course Overview:

The FTT-524 course is designed to provide students with a comprehensive understanding of fluid flow operations and rheology in the context of the food industry. The course primarily focuses on: a) Fluid Flow Operations: This aspect deals with the principles of fluid mechanics, including fluid properties, flow behavior, pressure drop, and flow through pipes and equipment used in food processing. b) Rheology: Rheology is the study of the flow and deformation of materials, particularly non-Newtonian fluids like food products. It is essential in understanding the behaviour of complex fluids during processing and manufacturing.

### 3. Challenges Faced by Students:

Several factors contributed to the students' difficulty in successfully completing FTT-524:

#### a) Overloaded Semester:

The 4<sup>th</sup> semester included three engineering courses, namely FTT-522 Food Engineering, FTT-523 Dairy Engineering, and FTT-524 Fluid Flow Operations and Rheology. The concurrent study of these three rigorous courses likely overwhelmed the students, causing their focus to be divided, and hindering their ability to grasp the complexities of Fluid Flow Operations and Rheology.

### b) Introduction of Rheology:

The inclusion of rheology as a part of the course added an extra layer of complexity. Rheology is a specialized subject that requires a solid understanding of fluid mechanics and mathematical concepts. The introduction of rheology might have stretched the students' capabilities beyond their preparedness, leading to confusion and difficulty in grasping the concepts.

#### 4. Recommendations:

To improve the learning outcomes and address the challenges faced by students, the following recommendations are suggested:

#### a) Restructure Course Curriculum:

Consider restructuring the curriculum for the 4th semester to distribute the course load more evenly. Perhaps, FTT-524: Fluid Flow Operations and Rheology could be moved to another semester with fewer demanding courses. This will provide students with a better opportunity to focus on and excel in the subject.

#### b) Separate Rheology from Fluid Flow Operations:

Based on feedback from students and faculty, it is recommended to remove the rheology part from the course and create a separate module or elective focusing solely on rheology. This will allow students to develop a more profound understanding of fluid flow operations before diving into the complexities of rheology.

#### 5. Conclusion:

The failure rate in the FTT-524 course, Fluid Flow Operations and Rheology, during the 4th semester, can be attributed to the heavy course load and the incorporation of rheology. To improve student performance and understanding, it is recommended to restructure the curriculum, remove the rheology part, provide additional support through tutoring and remedial classes, and emphasize practical applications. Implementing these changes will likely result in a more enriched learning experience and improved success rates for students pursuing the Food Engineering program.

Navdeep Jindal Associate Prof. (FET)

# SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL (Deemed University under MHRD, Govt. of India)

Subject: Remedial Classes of FTT-524 (FLUID FLOW OPERATIONS AND RHEOLOGY)

This is to inform to the undermentioned students of B.E. Food Technology (Degree 2016 Four Years & Leet 2017) that the results of: FTT-524 (FLUID FLOW OPERATIONS AND RHEOLOGY) examination, was declared on 12<sup>th</sup> February 2019, and the following students could not clear the examination:

Name of the student	Roll No
ABHIJIT SARKAR	1731074
HARE KRISHNA KUMAR	1731084
ABHISHEK KUMAR CHOUDHARY	1731925
PRASHANT RANJAN	1731934
MD. SAIF RIAZ ANSARI	1731941
KUNDAN RAJ	1731942
SAURABH SRIVASTAVA	1731945
	ABHIJIT SARKAR  HARE KRISHNA KUMAR  ABHISHEK KUMAR CHOUDHARY  PRASHANT RANJAN  MD. SAIF RIAZ ANSARI  KUNDAN RAJ

To provide an opportunity for these students to improve their understanding and performance in the subject, the Department of Food Technology has decided to conduct remedial classes for FTT-524 in the upcoming semester.

Course Code: FTT-524

Course Name: FLUID FLOW OPERATIONS AND RHEOLOGY

Faculty: Dr Navdeep Jindal

Class Schedule: from 4: 30 onwards and on Saturdays

The venue of the classes will be communicated soon.

All the concerned students mentioned above are requested to get in touch with the undersigned to confirm their attendance for the remedial classes. We strongly encourage the identified students to avail themselves of this opportunity to enhance their understanding of the subject and improve their academic performance.

(Navdeep Jindal)

Associate Prof. (FET)

CC: HOD (FET) -For kind information

**Notice Board** 

Page 1 of 4

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL (Deemed to be University under section 3 of UGC Act, 1956)
Tabulation sheet of B.E. Food Technology (Degree 2016) Four Years & Leet 2017

Ser	neseti	er: 4th Re	egular															Exar	ninat	tion :	May	, 201	8		
5.			Subject Codes	ETT	-521	Leve	-521	1	-522	1 1	Ear 2-522	ned G				Witness St. Co.									
No.	Trade	Regn. No.	Credits	711	3	7.16	1	PII	4	F-15	1	FII	-523 4	FIF	-523	FIT	-524	FTP	-524	FII	-525	FTP	-525	SGPA	List of subject(s) in which student gets fall Grade
3,775			Name of Student	Grade	Points	Grude	Froints	Grede	Penney	Grade	Points	Grade	Points	Grade	Points	Grade	Points	Grade	Pains	Grade	Points	Grade	Provite	22	i.e., "6","8", or "1"
1	GFT	1640059	Ms. PALLAVI MERTIYA	A+	10	A+	10	A+	10	A+	10	Α+	10	Α+	10	A+	10	A+	10	A+	10	A+	10	10.00	
2	GFI	1640071	SAURABH KUMAR	B+	8	B+	8	B+	8	A	9	С	5	B+	8	B+	8	Α	9	C+	6	B+	8	7.27	
3	GFT	1640106	SACHIN SAROJ	A+	10	A	9	В	7	A	9	8+	8	A+	10	A+	10	A+	10	А	9	B+	8	8.77	
4	GFT	1640116	CHINMAYA KUMAR PANDA	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	10.00	
5	GFT	1731072	POONAM NAIK	Α	9	A	9	8+	В	B+	8	C+	6	8+	8	С	5	А	9	A	9	Α	9	7.64	
6	GFT	1731073	MANAY PREET	B+	8	В	7	B+	8	B+	8	С	5	Α	9	С	5	B+	8	8+	8	8+	8	7.05	
7	GF1	1731074	ABHUIT SARKAR	В	.7	C+	6	С	5	B+	8	Ε	2	B+	8	E	2	A+	10	А	9	A+	10	5.64	FTT-523 FTT-524
8	GFT	1731075	SANKET KUMAR	8+	8	B+	8	B+	8	A	9	C+	6	А	9	B+	8	A+	10	В	7	B+	8	7.68	
9	GFT	1731076	ARUNAVA BHOWMIK	С	5	В	7	С	5	B+	8	D*	4	B+	8	С	5	Α	9	В	7	B+	- 8	5.77	
10	GFT	1731079	SNAHENDU KAR	B+	8	B+	8	В	7	А	9	C+	6	A	9	E	2	А	9	В	7	B+	8	6.64	FTT-524
11	GFT	1731081	NEERAJ LAL	C+	6	B+	8	c	5	В	7	С	5	A	9	D	4	A	9	C+	6	B+	8	5.86	
12	GFT	1731082	SUJAY SAGUN	B+	8	B+	8	C+	6	A	9	D	4	В	7	E	2	A	9	B+	8	Δ	0	6.19	ETT-624

P, 20/6/18

Prepared by

Checked by

## SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL (Deemed to be University under section 3 of UGC Act, 1956) Tabulation sheet of B.E. Food Technology (Degree 2016) Four Years & Leet 2017

						-	-				Far	ned G	ade a	od Gr	odo Pe	intr.	-				May	, 201			
S.			Subject Codes	FIT	-521	FTP	-521	FTT	-522	FTP	-522	FTT		FTP		FTT	-524	FTP	-524	FTT	-525	ETP	-525	SGPA	Ust of subject(s) in which
No.	Trade	Regn. No.	Credits		3		1		4		1		1		1		3		1		3		1	22	student gets fail Grade
			Name of Student	Grade	Points	Gradin	Provits	Grante	Points	Grade	Points	Granie	Points.	Grade	Pinnts	Grade	Ponta	Grade	Points	Grade	Points	Grade	Paints	44	i.e., "6", "F", or "f"
13	GFT	1731084	HARE KRISHNA KUMAR	D	4	D	4	D	4	В+	8	Е	2	D	4	E	2	С	5	C+	6	8+	8	4.05	FTT-523 FTT-524
14	GFT	1731911	ONAM KUMAR	B+	8	A	9	С	5	В+	8	D	4	C+	6	D	4	Α	9	B+	8	A	9	6.23	
15	GFT	1731912	SONI KUMARI	B+	8	В	7	D	4	В	7	D	4	C+	6	D	4	А	9	B+	8	A	9	5.91	
16	GFT	1731913	DEEPAK KASHYAP	В	7	B+	8	С	5	В	7	E	2	C	5	Ε	2	А	9	B+	8	B+	8	5.27	FTT-523 FTT-524
17	GFT	1731914	KM ASMA PARVEEN	Α	9	A+	10	С	5	B+	8	C+	5	В	7	В	7	Α	9	A	9	A	9	7.36	
18	GFT	1731915	SHIV SHANKAR MUKHIYA	Α	9	Α	9	C+	6	Α	. 9	В	7	Α	9	B+	8	B+	8	Α	9	А	9	7.91	
19	GFT	1731916	GARGI TYAGI	A+	10	A+	10	Α	9	A	9	Α	9	A+	10	A	9	А	9	A+	10	Α	9	9.36	
20	GFT	1731917	KAJAL	А	9	A	9	C	5	B+	8	С	5	C+	6	E	2	А	9	B+	8	А	9	6.27	FTT-524
21	GFT	1731919	NANDANI RAY	A+	10	A+	10	A	9	A+	10	A+	10	A+	10	A+	10	A	9	A+	10	A+	10	9.77	
22	GFT	1731920	SATYAM KUMAR SINGH	C+	6	B+	8	B+	8	Α	9	С	5	C+	6	С	5	C	5	A	9	Α	9	6.77	
23	GFT	1731921	PRACHI KUMARI	Α	9	A	9	В	7	C+	6	С	5	В	7	B+	8	А	9	А	9	A	9	7.55	
24	GFT	1731923	APARNA KUMARI	Α	9	A+	10	B+	8	B+	8	C+	6	А	9	B+	8	Α	9	A+	10	A+	10	8.32	
25	GFT	1731924	KUMARI KOMAL	B+	8	A	9	С	5	B+	8	D	4	C+	6	D	4	Α	9	Α	9	Α	9	6.36	

@ 20/6/18

Prepared by

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SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL (Deemed to be University under section 3 of UGC Act, 1956)
Tabulation sheet of B.E. Food Technology (Degree 2016) Four Years & Leet 2017

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			Subject Codes	-				T eve			-522	ned Gr	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	nd Gra	1000	printer a second		T eve				-			List of subject(s) in white
S.	Trade	Regn. No.	Credits	FTT	-521	FTP	-521 1	FTT	-522	FIR	-522	FIT	-523	FTP	-523	FTT	524	FTP	-524	FIT	-525	FTP	-525	SGPA	student gets fail Grade
No.			Name of Student	Grade	Points	Grade	Points	Grade	Points	Grade	Points	Grade	Points	Grade	Points	Grade	Points	Grage	Points	Grade	Points	Grade	Points	22	i.e., "6","F", or "1"
26	GFT	1731925	ABHISHEK KUMAR CHOUDHARY	В	7	В	7	D	4	C+	- 6	Е	2	C	5	E	2	Α	9	B+	8	8+	8	5.00	FTT-523 FTT-524
27	GFT	1731926	HARPREET SINGH	F	0	F	0	F	0	F	0	E	2	E	2	F	0	F	0	F	0	F	0	0.45	FTT-521 FTP-521 FTT-522 FTP-522 FTT-523 FTP-523 FTT-524 FTP-524 FTT-525 FTP-525
28	GFT	1731927	DINKEY PRIYA	A+	10	A+	10	С	5	В	7	С	5	В	7	С	5	А	9	A+	1.0	A+	10	7.18	
29	GFT	1731928	UDITA SINGH	C+	6	B+	8	D*	4	C+	6	E	2	С	5	E	2	С	5	C+	6	B+	8	4.45	FTT-523 FTT-524
30	GFT	1731929	SHREYA JAITLY	A+	10	A+	10	B+	8	A	9	B+	8	А	. 9	A	9	Α	9	A+	10	А	9	8.95	
31	GFT	1731930	BHAVINDER SHARMA	С	5	Α	9	С	5	В+	8	С	5	8+	8	E	2	B+	8	B+	8	B+	8	5.73	FTT-524
32	GFT	1731931	SHIVAM KUMAR	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	A+	10	10.00	
33	GFT	1731932	LUCKY KUMAR	A+	10	A+	10	C+	6	Α	9	Α	9	A+	10	D	4	A+	10	A+	10	A+	10	8.23	
34	GFT	1731933	MUKUL KUMAR CHAUHAN	B+	8	8+	8	C+	6	Α	9	C+	6	B+	8	E	2	B+	8	А	9	А	9	6.68	FTT-524
35	GFT	1731934	PRASHANT RANJAN	Α	9	А	9	C+	6	В	7	В	7	В	7	E	2	Α	9	B+	8	Α	9	6.82	FTT-524
36	GFT	1731935	PRIYANKA ARUN	A+	10	A+	10	B+	8	B+	8	B+	8	B+	8	B+	8	A+	10	A+	10	A+	10	8.82	

\*The grade revised as per decision of Result Moderation Board (RMB)/was held on 19.06.2018.

Q, 25/5/18

Prepared by

Checked by

A.R. (Exams.)

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL (Deemed to be University under section 3 of UGC Act, 1956)
Tabulation sheet of B.E. Food Technology (Degree 2016) Four Years & Leet 2017

Sen	nesete	er: 4th Re	egular															Exar	ninat	ion:	May	201	8		
			Subject Codes									A. California et al.	rade a	and the same of	Manager and Committee	graduation.com				-					List of subject(s) in which
S,	Trade	Regn. No.		FTT	-621	FTP	-521	FTT	-522 4	FTP	-522	FII	-523 4	FTP	1	FIT	-524	FTP	-524	FII	-525 3	FTP	1	SGPA 22	student gets fail Grade
No.	100000		Name of Student	Grade	Points.	Grade	Points	Grade	Puesta	Grade	Points	Grade	Points	Grade	Pounts	Grade	Points	Grade	Points	Grade	Points	Grade	Points	22	i.e., "E","F", or ")"
37	GFT	1731936	VIKAS GUPTA	A	9	A	9	C+	6	B+	8	В	7	B+	8	B+	8	Α	9	A	9	Α	9	7.86	
38	GFT	1731937	SHASHI PRAKASH	С	5	C+	6	C+	6	B+	8	Ε	2	C+	6	Е	2	A+	10	С	5	B+	8	4.82	FTT-523 FTT-524
39	GFT	1731938	MANIKANT KUMAR	B+	8	B+	8	С	5	B+	8	C+	6	С	5	C	5	А	9	A	9	A	9	6.77	
40	GFT	1731939	KIRTI SINGH	A	9	B+	8	C	5	В	7	C+	6	B+	8	С	5	А	9	А	9	A	9	7.00	
41	GFT	1731940	ANAL PUSHP	В	7	B+	8	С	5	B+	8	D	4	С	5	E	2	A	9	B+	8	B+	8	5.68	FTT-524
42	GFT	1731941	MD. SAIF RIAZ ANSARI	В	7	В	7	D	4	C+	6	E	2	C+	6	E	2	B+	8	B+	8	B+	8	5.00	FTT-523 FTT-524
43	GFT	1731942	KUNDAN RAJ	B+	8	B+	8	C+	6	B+	8	₽¥	4	С	5	E	2	B+	8	A	9	Α	9	6.14	FTT-524
44	GFT	1731943	PRITY SHANDILYA	A	9	A	9	В	7	B+	8	C	5	С	5	C	5	А	9	B+	8	A	9	7.00	
45	GFT	1731944	PRABHAT KUMAR	В	7	A	9	C+	6	B+	8	C+	6	B+	8	C+	6	Α	9	A	9	A	9	7.14	
46	GFT	1731945	SAURABH SRIVASTAVA	C+	6	C+	6	D	-4	C+	6	E	2	С	5	E	2	B+	8	С	5	B+	8	4.36	FTT-523 FTT-524
47	GFT	1731946	ANIKAIT TANDON	A	9	A	9	В	7	A	9	C+	6	B+	8	В	7	A	9	A	9	A	9	7.77	

whather

\*The grade revised as per decision of Result Moderation Board (RMB) was held on 19.06.2018.

Dispatch-SLIET/AS/ 115 Date 2/16/18

@276/18

Prepared by

Kanzolelle Checked by

Page 1 of 1

## SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL (Deemed to be University under section 3 of UGC Act, 1956) Tabulation sheet of B.E. Food Technology (Degree 2016) Four Years & Leet 2017

				0111111					-		Ear	ced G	rade a	nd Gr	ade Po	ints	-			-			1	ary, 201	
5:			Subject Codes	FIT	-521	FIR	651	FIT	-622	FTP	522		-623		-523	-	-524	FTP	524	FTT	-625	FTP	-625	5GPA	List of satisfact(s) in which
No.	irade	Regn. No.	Credits				1		4		1		4		1		3	3	1	II S	3	-	1	22	stustent gass fail Grade
			Name of Student	Oracle	Points	Steds	Diputes	Grase	Players	Grade	Paces	Grove	Folest	Grade	Points.	Seeds	Fonts	Grade	Points	Grasie	Points	Oranie:	Paints	-	Le., "F", "F", Or "I"
1	GET.	1731674	AGNOT SARKAR	8	7	C+	6	C	5	B+	8	E	2	B+	8	E	2	Α+	10	A	9	A+	10	5.64	FTT-523 FTT-524
ž	GIT	1731075	SNAHENDU KAR	B+	8	B+	8	В	7	A	9	C+	6	A	9	С	5	Α	9	В	7	B+	8	7.05	
3	GFT	1731072	SUIAY SAGUN GAWAS	B+	8	8+	8	C+	6	A	9	D	4	В	7	D	4	A	9	B+	8	А	9	6.45	
4	(m)	1731000	HARE ERISHNA KUMAS	D	4	D	4	D	4	Bv	8	E	2	D	4	E	2	С	5	C+	6	6+	8	4.05	FTT-523 FTT-524
£	GTT	1731/07	ENIAN	A	9	A	0,	C	5	B+	8	C	5	C+	6	C	5	Α	9	B+	8	А	9	6.68	
Ü	GPT	1931925	ABRISHER KUMAR CHOULHARY	8	7	B	7	D.	4	C+	6	С	5	С	5	Ε	2	A	9	B+	8	B+	8	5.55	FTT-624
7	GFT	1731930	BHAVINDER SHARMA	C	5	A	9	C	5	B+	8	С	5	B+	8	D	4	B+	8	B+	8	B+	8	6.00	
8	GFT	1731935	MUKUL KUMAR CHAUHAN	B+	8	8+	8	C+	6	A	9	C+	6	B+	8	C+	6	B+	8	Α	9	A	9	7.23	
*	GFT	1751574	PRASHANT RANJAN	Ä	9	Α	9	C-	6	В	7	В	7	В	7	Ε	2	Α	9	B+	8	Α	9	6.82	F1T-524
10	QF1	1731637	SHASHI PRAKASH	C	5	C+	6	C+	6	B+	8	E	2	C+	6	C.	5	A+	10	С	5	5+	6	5.23	FTT-523
17	GFT	1731941	IAD. SAN RIAZ ANSARI	В	7	В	7	D	4	C+	6	E	2	C+	6	£	2	B+	8	B÷	8	B+	8	5.00	FTT-523 FTT-524
12	GFT	1731942	KUNDAN RAJ	B+	8	B÷	8	C+	6	B+	8	D	4	C	5	E	2	B+	8	Α	9	Α	9	6.14	FTT-524
13	GFT	1731945	SAURABH SRIVASTAVA	C+	6	C+	6	D	4	C+	6	С	5	c	5	E	2	B+	8	С	5	B+	8	4.91	FTT-524

Dispatch-SLIET/AS/225.7

Prepared by

A.R. (Exams.)