



IIM INDORE'S Integrated Program in Business Analytics (IPBA)

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Integrated Program In Business Analytics (IPBA)									
Module	Mode	Wk	Date	Time	Hours	Owner	Session Type	Session Topic	Tools
Kick off/ Orientation	Online	1	24 Sep 22	10:00 AM to 11:00AM IST	1	JA	IL Session	JLC and Schedule walkthrough and Student Checklist	NA
Intro	Online	2	1 Oct 22	10:00 AM to 11:00 AM IST	1	JA	IL Session	Get introduced to the world of Business Analytics and Data Science	PPT
Inauguration	Online	2	8 Oct 22	09:00 AM to 10:00 AM IST	1	IIM I	Welcome	Inauguration with IIM Indore and JA - Welcome Address and Introductions - Course Content and Delivery - Expectations for successful completion of the program including assessments passing criteria - About placement Assistance	
Analytics Intro	Online	3	8 Oct 22	10:30 AM to 1:00 PM IST	2.5	IIM I	IL Session	Introduction to Analytics and CRISP DM Data Collection and Biases	
R	Online	3	8 Oct 22	02:30 PM to 05:00 PM IST	2.5	JA	IL Session	Intro to R	PPT+R
Descriptive Statistics	Online	4	9 Oct 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Generating and Using Summary Statistics Distributions and Histograms with R Empirical Distributions	R and R Studio
R	Online	4	15 Oct 22	02:30 PM to 05:00 PM IST	2.5	JA	IL Session	R data manipulation	
	Online	4	16 Oct 22	07:00 PM to 08:00 PM IST	1	JA	Practice Session	Hands on practice session <i>Late evening (1 hour optional)</i>	
	Online	4	16 Oct 22	10:00 AM to 12:30 PM IST	2.5	JA	CS Session	Business Case Study - R data manipulation	
Descriptive and Inferential Stats	Online	5	22 Oct 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Fundamental probability concepts and Probability distributions (Discrete distributions)	PPT+R
	Online	5	23 Oct 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Continuous distributions, Normal distribution, Sampling distribution, CLT	PPT+R
	Online	5	23 Oct 22	07:00 PM to 08:00 PM IST	1	JA	Practice Session	Hands on practice session <i>Late evening (1 hour optional)</i>	Excel / R
	Online	6	29 Oct 22	10:00 AM to 12:30 PM IST	2.5	IIM I	CS Session	Parameter estimation via confidence interval + Business Case study (Descriptive Stats) (Includes Live graded quiz)	PPT+R
	Online	6	30 Oct 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Basics of hypothesis testing, 1-sample tests (μ , p), one-sided, two-sided, via CI, p-value	
	Online	7	5 Nov 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	2-sample (paired & independent) tests (means), Equality of variance test Nonparametric tests (sign test, WSRT, Mann-Whittney test), test for normality	
	Online	7	6 Nov 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	k-sample test for mean: ANOVA, Kruskal-Wallis test Chi-square tests for goodness of fit, independence, homogeneity	
	Online	7	6 Nov 22	07:00 PM to 08:00 PM IST	1	JA	Practice Session	Hands on practice session <i>Late evening (1 hour optional)</i>	Excel /R
	Online				0	JA	Practice Assignment (Non Graded)	Practice Hypotheses Testing MCQ Case Study on JLC (non graded)	Excel (Hosted on JLC)
	Online	8	14 Nov 22	7:00 PM to 8:00 PM IST	1	JA + IIM I	Open Office	Open office session 1	NA
	Online	8	12 Nov 22	10:00 AM to 12:30 PM IST	2.5	IIM I	CS Session	Business Case study- Descriptive + Inferential Statistics (Includes live graded quiz)	PPT+R



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Descriptive and Inferential Stats	Online	8	13 Nov 22	10:00 AM to 11:30 PM IST	1.5	JA	QnA Session	QnA session on practice MCQ and case study - restricted to only the questions posted on JLC forum	Excel / R
	Online	9	19 Nov 22	NA	0	NA	No class	No class- Break to prep for assignment	NA
	Online	9	20 Nov 22	2:00 PM to 3:00 PM	0	NA	Graded Assignment	Assignment Submission 1 - Statistics (MCQ) on JLC	JLC
SQL	Online	10	26 Nov 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	SQL Servers as Data Sources Data Normalization and Consequence	MySQL
	Online	10	27 Nov 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Basic SQL DML Queries SQL Joins	MySQL
	Online	10	27 Nov 22		0	JA	Practice Assignment (Non Graded)	Practice SQL MCQ Case Study on JLC (non graded)	MySQL (Hosted on JLC)
	Online	11	3 Dec 22	10:00 AM to 12:30 PM IST	2.5	JA	CS Session	Business Case study - SQL DML commands (Includes Live graded quiz)	MySQL
	Online	11	3 Dec 22	TBD	0.75	JA	Alumni/ Guest	Alumni connect/ Industry Guest lecture	NA
	Online	11	4 Dec 22	10:00 AM to 11:30 PM IST	1.5	JA	QnA Session	QnA session on practice MCQ and case study - restricted to only the questions posted on JLC forum	MySQL
	Online	12	10 Dec 22	2:00 PM to 3:00 PM	0	NA	Graded Assignment	Assignment Submission 2 - SQL (MCQ) on JLC	JLC
	Online	12	11 Dec 22	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Data Exploration and Visualization in R + Data Sanity checks and treatment - Session 1	R
R	Online	13	17 Dec 22	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Data Exploration and Visualization in R + Data Sanity checks and treatment - Session 2	
	Online	13	18 Dec 22	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Using GitHub & Kaggle to build an analytics profile	Kaggle
Kaggle and Github	Online	13	18 Dec 22	7:00 PM to 8:00 PM IST	1	JA	Practice Session	Hands on practice session Late evening (1 hour optional)	R
	Online	14	24 Dec 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Linear Regression (Simple and MLR) - BLUE Estimators and Interpreting Model Results	PPT + R
	NA	14	25 Dec 22	NA	0	NA	Holiday	No class - Christmas	NA
GLM - Statistics Module	Online	15	31 Dec 22	NA	0	NA	Holiday	No class -Year End break	
		15	1 Jan 23	NA	0	NA	Holiday	No class - New Year	
	Online	16	7 Jan 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Linear Regression - Checking Model Assumptions and Improving Models (Model Diagnostics)	PPT + R
	Online	16	7 Jan 23		0	JA	Practice Assignment (Non Graded)	Practice Data Manipulation + EDA + Viz + Linear Regression Case Study on Kaggle (Non graded private competition)	R (Hosted on Kaggle)
	Online	16	8 Jan 23	10:00 AM to 12:30 PM IST	2.5	IIM I	CS Session	Business Case Study - Regression Models (Multiple Linear Regression) (Includes Live graded quiz)	R
	Online	17	14 Jan 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Logistic Regression - Logistic Cost Function and Interpreting Model Results Logistic Regression - Measuring Classification Performance - AUC, ROC, Confusion Matrix	R
	Online	17	16 Jan 23	7:00 PM to 8:00 PM IST	1	JA + IIM I	Open Office	Open office session 2	NA
		17	15 Jan 23	10:00 AM to 12:30 PM IST	2.5	IIM I	CS Session	Business Case Study - Regression Models (Logistics Regression) (Includes Live graded quiz)	R
	Online	18	21 Jan 23	NA	0	NA	No class	No class- Break to prep for assignment	NA
	Online	18	22 Jan 23	2:00 PM to 3:00 PM	0	NA	Graded Assignment	Assignment Submission 3 - Regression (Case study) on Kaggle (private competition) + Regression MCQ on JLC	JLC + Kaggle



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GLM - Statistics Module	Online	19	28 Jan 22	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Time Series Forecasting - Session 1	PPT + R
	Online	19	29 Jan 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Time Series Forecasting - Session 2	PPT + R
	Online	20	4 Feb 23	10:00 AM to 12:30 PM IST	2.5	JA	CS Session	Business Case study - Time Series Forecasting (Includes Live graded quiz)	R
	Online	20	5 Feb 23	TBD	0.75	JA	Alumni/ Guest	Alumni connect/ Industry Guest lecture	NA
	Online	21	11 Feb 23		0	JA	Assignment (Non Graded)	Practice Time Series Case Study on Kaggle (Non graded private competition)	R (Hosted on Kaggle)
	NA	21	12 Feb 23	NA	0	NA	No class	No class - Break to prep for assignment	NA
	Online	22	18 Feb 23	2:00 PM to 3:00 PM	0	NA	Graded Assignment	Assignment Submission 4 - Time Series (Case study) on Kaggle (private competition) + Time Series MCQ on JLC	JLC + Kaggle
Python	Online	22	19 Feb 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Introduction to Python- Basic Data Structures	Python (Jupyter Notebook)
	Online	23	25 Feb 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Python Basic Data Structures & Data Manipulation	
BYOP	Online	23	26 Feb 23	10:00 AM to 11:00 AM IST	1	JA	Major Project (BYOP)	BYOP - A session to guide how to source your own data and business problems	PPT
Python	Online	24	4 Mar 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Python - Data Exploration - Sanity Checks Preparing Data Quality Reports	Python (Jupyter Notebook)
	Online	24	5 Mar 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Python- Data Preparation -Outliers and Missing Value Treatments Variable Profiling Using Information Value	
	Online	25	11 Mar 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Python- Data Preparation -Outliers and Missing Value Treatments Variable Profiling Using Information Value	
	Online	25	12 Mar 23	07:00 PM to 08:00 PM IST	1	JA	Practice Session	Hands on practice session <i>Late evening (1 hour optional)</i>	
	Online	25	16 Mar 23	7:00 PM to 8:00 PM IST	1	JA + IIM I	Open Office	Open office session 3	NA
	Online	26	18 Mar 23	10:00 AM to 12:30 PM IST	2.5	JA	CS Session	Business Case study (EDA) - Python	Python (Jupyter Notebook)
BYOP	Online	26	19 Mar 23	NA	0	JA	Major Project (BYOP)	BYOP interim check point	Mail
Machine Learning	Online	25	25 Mar 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Intro to Machine Learning	Python (Jupyter Notebook)
	Online	25	26 Mar 23	TBD	0.75	JA	Alumni/ Guest	Alumni connect/ Industry Guest lecture	NA
	Online	25	26 Mar 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Tree Models - Regression Trees and Classification Trees Feature Importance Purity Measures - GINI	Python (Jupyter Notebook)
	Online	26	1 Apr 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Purity Measures - Entropy MSE Building and Pruning Trees (Includes Live graded quiz)	



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Machine Learning	Online	26	2 Apr 23	TBD	0	JA	Practice Assignment (Non Graded)	Practice ML Case Study on Kaggle (non graded private competition)	Python NB (Hosted on Kaggle)
	Online	27	8 Apr 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Ensemble Methods - Bagged Ensembles	Python (Jupyter Notebook)
	Online	27	8 Apr 23	NA	0	NA	Holiday	No class - Easter Sunday	NA
BYOP	NA	27	9 Apr 23	NA	0	JA	Major Project (BYOP)	BYOP proposal submission deadline, following approvals and mentor allocations	Mail
Machine Learning	Online	28		10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Ensemble Methods - Random Forests	Python (Jupyter Notebook)
	Online	29	15 Apr 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Clustering - K Means and Hierarchical Models	
	Online	29	16 Apr 23	NA	0	NA	Holiday	No class - Idul Fitr	NA
	NA	30	22 Apr 23	10:00 AM to 12:30 PM IST	2.5	JA	CS Session	Business Case study - Machine Learning algorithms (Includes Live graded quiz)	Python (Jupyter Notebook)
	Online	30	23 Apr 23	NA	0	NA	No class	No class	NA
	NA	31	29 Apr 23	2:00 PM to 3:00 PM	0	NA	Graded Assignment	Assignment Submission 5 -ML (Case study) on Kaggle (private competition) + ML MCQ on JLC	JLC + Kaggle
	Online	31	30 Apr 23	10:00 AM to 11:00 AM IST	1	JA	IL Session	DS talk - connecting the dots (With Sarita Digumarti - Industry expert)	NA
	Online	32	6 May 23	NA	0	JA	Major Project (BYOP)	BYOP kick off	Mail
Placement Assistance	Online	32	6 May 23	TBD	0	JA	Placement Assistance	Placement Committee Formation - mail	Mail
Text Mining and Intro to NLP	NA	32	6 May 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Text Handling - Reading Text Files at Scale Using Regular Expressions to Clean Text Handling Text Encoding Issues	Python (Jupyter Notebook)
	Online	32	7 May 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Tokenization, stemming and lemmatization POS Tagging Parsing Grammatical Trees Named Entity Recognition	
	Online	33	13 May 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Modeling - Text Representation, TFIDF, Count Vector Cosine Similarity of Text Corpus Using TFIDF features to build sentiment classifiers	
	Online	33	14 May 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Handling Image data	
	Online	34	20 May 23	10:00 AM to 12:30 PM IST	2.5	JA	CS Session	Business Case study - Text Mining (Includes Live graded quiz)	
	Online	34	21 May 23	2:00 PM to 3:00 PM	0	NA	Graded Assignment	Assignment Submission 6 - Text Mining (Case study) on Kaggle (private competition) + Text Mining MCQ on JLC	JLC + Kaggle
	Online	34	22 May 23	7:00 PM to 8:00 PM IST	1	JA + IIM I	Open Office	Open office session 4	NA
	Online	35	27 May 23	10:00 AM to 12:30 PM IST	2.5	JA	IL Session	Tableau for Data Visualization	Tableau
Placement Assistance	Online	35	28 May 23	TBD	1	JA	Placement Assistance	Placement Connect 1 - kick off session	NA
Generating Business Value with Storytelling and Insights	Online	35	28 May 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Models to Value	PPT
	Online	36	3 Jun 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Pitfalls of Predictive Models in Business	



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Generating Business Value with Storytelling and Insights	Online	36	4 Jun 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Storytelling with Data - 1	PPT
	Online	37	10 Jun 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Storytelling with Data - 2	
	Online	37	11 Jun 23	TBD	0.75	JA	Alumni/ Guest	Alumni connect/ Industry Guest lecture	NA
Placement Assistance	Online	38	17 Jun 23	10:00 AM to 11:00 PM IST	1	JA + IIM I	Placement Assistance	Placement Connect 2- Resume writing and interview tips session	NA
Big Data and ML with Spark	Online	38	18 Jun 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Intro to Big Data Ecosystem - Hadoop and HDFS	PPT
	Online	38	24 Jun 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Querying with Hive	Big Data VM
	Online	38	25 Jun 23	10:00 AM to 12:30 PM IST	2.5	IIM I	IL Session	Intro to Spark and PySpark SQL	
	Online	39	1 Jul 23	10:00 AM to 12:30 PM IST	2.5	IIM I	CS Session	Business Case Study Data Engg	
	Online	39	2 Jul 23	10:00 AM to 12:30 PM IST	2.5	IIM I	CS Session	Business Case Study - ML with PySpark (Includes Live graded quiz)	
	Online	40	8 Jul 23	NA	0	NA	No class	No class - Break to prep for assignment	NA
	NA	40	9 Jul 23	2:00 PM to 3:00 PM	0	NA	Graded Assignment	Assignment Submission 7 - Big Data (MCQ) on JLC	JLC
	Online	40	10 Jul 23	7:00 PM to 8:00 PM IST	1	JA + IIM I	Open Office	Open office session 5	NA
	Online	41	15 Jul 23	NA	0	NA	No class	No class - Prep for project work	NA
BYOP	NA	41	16 Jul 23	NA	0	NA	No class	No class - Prep for project work	NA
	NA	42	22 Jul 23	10:00 AM to 12:30 PM IST	2.5	JA + IIM I	Major Project (BYOP)	Online BYOP Project presentations	Online
	Online	42	23 Jul 23	NA	0	NA	No class	No class	NA
Placement Assistance	NA	43	29 Jul 23	10:00 AM to 11:00 PM IST	1	JA	Placement Assistance	Placement connect 3 - status check	NA
Convocation	Online	43	30 Jul 23		1	JA + IIM I	Convocation	IIM I tour; Meetup with faculty and batchmates	NA
	In-person*	44	26 Aug 23		1	JA + IIM I	Convocation	Landscape Survey of Analytics, ML and AI	NA
	In-person*	44	27 Aug 23		3	JA + IIM I	Convocation	In person Convocation	NA

Notes:

- Please note that while every effort will be made not to change the dates/time in the schedule, Indian Institute of Management Indore and Jigsaw Academy reserves the right to modify the schedule due to factors beyond our control. All changes will be informed to participants in a timely manner.
- *Subjected to change based on how Covid-19 situation in the country improves (Govt. and IIM I discretion)
- ^ Could be merged with Case study session as well in some cases
- MCQ graded assignments on JLC will be 1 hour each
- Case Study (graded) on Kaggle will be 4 hours each