SUBJECTS AND SYLLABUS FOR COMPREHENSIVE VIVA

Karthicanand M. S. (MS18D202)

Department of Management Studies – Indian Institute of Technology Madras

MS6031 – Data Analysis for Research Course Instructor: Dr. R.K. Amit

Introduction to statistics – Mean, median, mode, variance, probability mass functions, probability density functions, cumulative density function, correlation, independent events

Probability distributions – Binomial distribution, Poisson distribution, Normal distribution, Chisquared distribution, t-distribution, F-distribution

Inferential Statistics – Population and Sample, Confidence intervals, Central Limit Theorem

Hypothesis Testing – single sample z test, single sample t test, chi squared test of variance, proportion z test, two sample z test, two sample t test, paired t test, two sample proportion z test, chi squared test of independence

Type 1 and type 2 errors

MS7080 – Research Methodology in Business & Management Course Instructor: Prof. Saji K. Mathew

Approach to research – What is research? Researcher Bias, Fundamental vs Applied research, Science of social science, Research paradigms in management research.

Foundations of theory – Theory in management research, Hypotheses and Propositions, Theory building, Epistemology and Ontology, Quantitative vs. Qualitative Research.

Qualitative research – Qualitative research in management, Different qualitative approaches, interpretivism and positivism in qualitative research.

Quantitative research – Concepts, constructs and measurement, Scales of measurement, Surveybased research, and Experimental design.

Research design – Level of analysis and measurement, Experimental approach, Cross sectional design, Longitudinal design, Case study design, Methodological fit in research.

MS6210 – Business Models Course Instructor: Prof. L. Prakash Sai

Corporate Lifecycles: Growing Vs Ageing Companies – Corporate Lifecycle Stages (Infancy – Go-Go – Adolescence – Prime – Stable – Aristocracy – Recrimination – Bureaucracy – Death) – Tools for organizational analysis.

Business Excellence Models: Core values and concepts – Business Excellence frameworks of USA (MBNQA), Europe (EFQM) and India (CII-EXIM).

Components of a Business Model: Relationship between strategy and structure – Product vs Service Businesses – Firm boundaries – Architectural components of business models – Business model canvas – Evaluation of business models.

Planning and Execution of Business Models: Profit Models – VRISA analysis – Sources of competitive advantage – Critical success factors for planning and executing business models.

Business Innovation: Industrial perspectives on growth and innovation – Types of innovations – Managing product and process innovations – Managing disruptive innovations – Principles of value based management

MS5050 – Marketing Management I Course Instructor: Dr. Varisha Rehman

- **Module 1:** Introduction to marketing –marketing and selling relationship; Market Offerings Products, Services, and Experiences; Customer Needs, Wants, and Demands
- **Module 2:** Delivering customer value and satisfaction concept of total cost, total benefit, value delivery process and Michael Porter value chain
- **Module 3:** Marketing Environment; Marketing Mix; Strategic market planning vision, mission and strategies, SWOT analysis; BCG matrix
- **Module 4:** Consumer markets and buyer behaviour impact of cultural factors, social factors, Personal factors and Psychological factors on consumer behaviour; Business markets and buying behaviour
- **Module 5:** Market segmentation-levels of segment; criteria for segmentation; Targeting types of targeting strategies; Positioning points of parity and points of difference; positioning strategies.

MS5120 - Organizational Structure and Design Course Instructor: Dr. Lata Dyaram

Introduction: Organization, Organization Structure, Organization Design, Organization Theory, Organization Culture; Contrasting Organization Theory and Organizational Behaviour

Organizational Effectiveness: Characteristics of Effective Organizations, Approaches in Measuring Effectiveness – Goal Attainment Approach, Systems Approach, Strategic Constituency Approach, Competing Values Approach

Organizational Structure: Determinants – Strategy, Organization Size, Technology, Environment, Power-Control; Dimensions – Complexity, Formalization, Centralization

Organizational Design: Basic Elements, Basic Configurations – Simple Structure, Machine Bureaucracy, Professional Bureaucracy, Divisional Structure, Adhocracy

Contemporary Issues: Managing Organizational Change, Managing Organizational Conflict, Managing Organizational Culture